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VOLUME 15

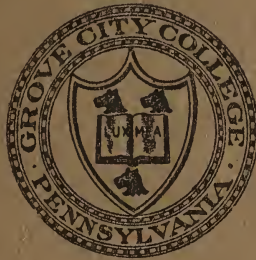
1321

NUMBER 9

# Grove City College BULLETIN

CATALOGUE EDITION  
JANUARY 1921

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GROVE CITY COLLEGE  
GROVE CITY, PA.

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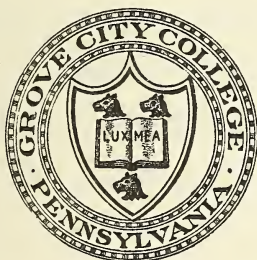
*Forty-Fifth Year*

# *Grove City College*

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*Catalogue for 1920-1921*

*With Calendar and Courses of  
Study for the Year 1920-1921*



*Grove City,*

*Pennsylvania*

For Information and Catalogues

Write the Registrar,

HAROLD O. WHITE,

Grove City, Pennsylvania.



## CALENDAR

---

### *1920*

|                         |   |
|-------------------------|---|
| September 28, Tuesday   | Registration of students for the Fall Term. |
| September 29, Wednesday | Recitations begin 7:40 A. M.                |
| December 14-17          | Final Examinations for the Fall Term.       |

### *1921*

|                         |   |
|-------------------------|---|
| January 4, Tuesday      | Registration of students for the Winter Term. |
| January 5, Wednesday    | Recitations begin 7:40 A. M.                  |
| March 22-25             | Final Examinations for the Winter Term.       |
| March 29, Tuesday       | Registration of students for the Spring Term. |
| March 30, Wednesday     | Recitations begin 7:40 A. M.                  |
| June 7-10               | Final Examinations for the Spring Term.       |
| June 12, Sunday         | } Exercises of Commencement Week.             |
| June 13, Monday         |   |
| June 14, Tuesday        |   |
| June 15, Wednesday      |   |
| June 21, Tuesday        | Registration of students for Summer Term.     |
| June 22, Wednesday      | Recitations begin 7:40 A. M.                  |
| August 5-14             | Bible School.                                 |
| August 17-20            | Final Examinations for the Summer Term.       |
| September 27, Tuesday   | Registration of students for the Fall Term.   |
| September 28, Wednesday | Recitations begin 7:40 A. M.                  |
| December 13-16          | Final Examinations for the Fall Term.         |

## BOARD OF TRUSTEES

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### *CLASS 1 (Term expires 1921)*

| When first<br>elected.                                 | Residence    |
|--|--------------|
| 1919 M. L. BENEDUM.....                                | Pittsburgh   |
| 1880 J. T. BLAIR.....                                  | Pittsburgh   |
| 1919 J. S. CRUTCHFIELD.....                            | Pittsburgh   |
| 1902 E. J. FITHIAN, M. D.....                          | Grove City   |
| 1912 ROBERT GARLAND .....                              | Pittsburgh   |
| 1912 JAMES H. HAMMOND.....                             | Pittsburgh   |
| 1901 HARVEY A. MILLER, Esq.....                        | Pittsburgh   |
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| 1918 REV. P. W. SNYDER, D. D., '97 Alumni Trustee..... | Pittsburgh   |
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|   |              |
|---|--------------|
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| 1898 HENRY BUHL, JR.....                          | Pittsburgh   |
| 1917 REV. H. G. DODDS, D. D.....                  | Farrell      |
| 1912 REV. D. A. McCLENAHAN, D. D., LL. D.....     | Pittsburgh   |
| 1911 REV. W. L. McEWAN, D. D.....                 | Pittsburgh   |
| 1907 WILLIAM S. MCKAY.....                        | Oil City     |
| 1895 EDWARD O'NEIL .....                          | Sewickley    |
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| 1916 WEIR C. KETLER, Ex-Officio.                  |              |

### *Class 3 (Term expires 1923)*

|   |            |
|---|------------|
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| 1895 REV. JOSEPH T. GIBSON, D. D.....     | Pittsburgh |
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| 1905 WILLIAM ALBERT HARBISON.....         | Pittsburgh |
| 1915 A. R. HODGE, '10 Alumni Trustee..... | Grove City |
| 1902 WILSON A. SHAW.....                  | Pittsburgh |
| 1906 WILLIAM V. YOUNG.....                | Grove City |

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---

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| WILLIAM S. McKAY, Secretary |                      |

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Professor of Romance Languages

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Professor of Analytical and Physical Chemistry

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Professor of Mathematics

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(A. B., Grove City College; Western Theological Seminary;  
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College Pastor, Samuel P. Harbison Professor of Bible

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Professor of Commercial Subjects

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Medical Adviser

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(Emerson School of Oratory)  
Instructor in Oratory

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(Thomas Normal Training School, Detroit; Columbia University)  
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Athletic Director

ELIZABETH BELL  
(Grove City College)  
Instructor in Stenography and Typewriting

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---

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Professor of Piano, Vocal and Supervisor of the Teachers' Seminar

GUSTAV MEHNER

(Royal Conservatory of Music, Dresden, Saxony)

Professor of Pipe Organ, Piano, Composition, Harmony and Forms

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(Grove City College)

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(Philadelphia School of Design for Women)

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---

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*Dean. Latin*

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HERBERT W. HARMON, M. S.  
*Physics*

SAMUEL GRANT OLIPHANT, PH. D.  
*Greek*

WILLIAM G. REAGLE, D. D.  
College Pastor, Samuel P. Harbison Professor of Bible

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PORT ECKLES  
(Superintendent of Farrell Schools)  
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Physics

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Primary Methods

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REVEREND CHARLES E. JEFFERSON, D. D.  
(Broadway Tabernacle Church, New York, N. Y.)

BISHOP WILLIAM F. OLDHAM  
(Bishop of the Methodist Church)

PROFESSOR R. D. WILSON, D. D.  
(Princeton Theological Seminary)

PROFESSOR WILLIAM R. FARMER  
(Western Theological Seminary)

PROFESSOR G. A. JOHNSTON ROSS  
(Union Theological Seminary)

REVEREND JOHN McDOWELL, D. D.  
(General Secretary of the Board of Home Missions of the Presbyterian Church)

PROFESSOR GEORGE M. SLEETH  
(Western Theological Seminary)

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South America

REVEREND O. R. AVISON, D. D.  
Korea

REVEREND H. S. VINCENT, D. D.  
Siam

REVEREND C. H. YERKES  
China

REVEREND JAMES G. HUNT  
Missions

## MUSIC

PROFESSOR AND MRS. B. C. MONTGOMERY  
Boulder, Col.

# FACULTY OF ADMINISTRATION

---

|                                    |                            |
|------------------------------------|----------------------------|
| WEIR C. KETLER, A. M.....          | President                  |
| A. J. CALDERWOOD, PH. D.....       | Dean of the Faculty        |
| HAROLD O. WHITE, A. M.....         | Registrar                  |
| MRS. LOIS CORY-THOMPSON, B. L..... | Dean of Women              |
| E. C. MYERS.....                   | Bursar                     |
| INA MAYE MORROW.....               | Secretary to the President |
| ALICE NIECE.....                   | Secretary to the Registrar |
| MRS. MABEL BLAIR.....              | Matron of the Colonial     |
| MARY E. DUNBAR, S. B.....          | Librarian                  |

## COMMITTEES OF THE FACULTY

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|                |              |           |
|----------------|--------------|-----------|
| DR. CALDERWOOD | DR. SIEPLEIN | MR. WHITE |
|----------------|--------------|-----------|

### *Committee on Admission and Instruction*

|                |               |                |
|----------------|---------------|----------------|
| DR. SIEPLEIN   | PROF. McEUEEN | DR. PLATT      |
| DR. OLIPHANT   | DR. CARUTHERS | PROF. HATFIELD |
| DR. CALDERWOOD | DR. REAGLE    | MR. WHITE      |

### *Discipline Committee*

|                |              |           |              |
|----------------|--------------|-----------|--------------|
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|----------------|--------------|-----------|--------------|

### *Library Committee*

|              |                |              |
|--------------|----------------|--------------|
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|              | PROF. HARMON   | PROF. BECKER |

### *Committee on Student Activities*

|               |              |              |
|---------------|--------------|--------------|
| DR. REAGLE    | MISS GRIFFIN | PROF. HARMON |
| MRS. THOMPSON | PROF. KETLER | PROF. HOYT   |

### *Committee on Physical Training*

|              |           |               |
|--------------|-----------|---------------|
| PROF. HARMON | MR. MYERS | MISS LOCKHART |
| MR. THORN    | MR. WHITE |               |

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|            |             |               |
|------------|-------------|---------------|
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|------------|-------------|---------------|

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|             |               |              |                |
|-------------|---------------|--------------|----------------|
| DR. GALLAND | PROF. McEUEEN | MISS GRIFFIN | PROF. HATFIELD |
|-------------|---------------|--------------|----------------|

## HISTORICAL SKETCH

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The first effort to provide instruction in college preparatory studies in Pine Grove, now Grove City, was made in 1858 by the Reverend Richard M. Thompson, D. D.

In 1864 the Reverend William T. Dickson became pastor of the Presbyterian Church of Pine Grove. He and his wife, Mrs. Harriet L. Dickson, maintained a private school for the young people of this community. This school was held in their home till the attendance justified the use of a larger room. It was then moved to the Presbyterian Church, where it was continued with but slight interruption for ten years.

In 1874 the school directors of Pine Township built a one-story two-roomed brick school house. To this building those interested in higher education added a second story. In this second story of the public school building in Pine Grove, a select school was started. The committee of the stockholders of this upper room consisted of Joseph Humphrey, president; James A. Gilmore, secretary; N. W. VanEman, M. D., O. P. McCoy, and James Hunter. Isaac C. Ketler, of Blacktown, a village four miles west of Pine Grove, rented this upper room, furnished it at his own expense, and opened the school with thirteen students on April 11, 1876. Twenty-four students enrolled in that term. On August 8, 1876, the first Fall session of the school opened with an attendance of about eighty students. Samuel R. McClelland assisted Mr. Ketler during that session.

In September, 1878, a meeting of the citizens was called to consider the propriety of securing real estate on which to erect an academy building. At this meeting Mr. Robert G. Black presided. In opening the meeting he said, "In view of the very great and vital interest which has brought us together, it is proper and wise that Divine guidance and blessing be sought." The religious spirit of that first meeting of the citizens has characterized the subsequent work of this school.

A finance committee, composed of William A. Young, J. M. Martin, M. D., James P. Locke, James Hunter, and Joseph Humphrey, was appointed to provide means for the purchase of grounds and the erection of an academy building; and to apply for a charter of incorporation for the academy. In August, 1879, the Court of Common Pleas of Mercer County, Pennsylvania, granted a charter of incorporation for the purpose of establishing and maintaining a school in Pine Grove, to be known as The Pine Grove Normal Academy. The aforesaid finance committee, under the charter, constituted the Board of Trustees until their successors, a board of fifteen trustees, were elected on the second Monday of January, 1880. The capital stock of the corporation was at first limited to \$25,000 to be sold in shares of \$10 each. The stock was afterward increased to \$50,000. When four hundred shares had been subscribed, and when twenty per cent of the stock was paid in, the charter was to go into effect. Captain R. C. Craig was appointed to solicit funds. Early in the spring of 1879 the required amount of stock having been sold and twenty per cent of it having been paid in, the finance committee purchased ground and began the erection of a building. The four acres of ground and the building cost about \$10,000. This building was first occupied in December, 1879. From that time on the growth of the institution has been rapid and continuous.

In 1881 the attendance of students had so increased that the demand for larger facilities became imperative. In 1882 another building was erected. It is now a part of the Physics Building. A small dormitory for young women was built by the Reverend W. J. McConkey and was rented to the Academy. Later the College purchased this building, enlarged, and improved it to meet the needs of the Music Department.

By decree of the Court of Quarter Sessions January 4, 1883, the town of Pine Grove was incorporated under the name of Grove City. The first election for borough officers was held February 3, 1883.

In 1883 the annual attendance at the Academy had increased to five hundred students. The work had been mainly the preparation of teachers for teaching and of students for college, although in 1881 and 1882 classes were graduated in a scientific course of study, and received diplomas and degrees. A collegiate

classical course was desired in this institution. The smallness of the expenses at the school made it possible for students of limited means to take such a course. At the request of the Board of Trustees a decree was granted November 21, 1884, which changed the Academy to a college.

In September, 1894, the institution had property valued at \$100,000. It was in debt and needed a more adequate equipment for the work undertaken. It was felt that unless more help could be secured about all that was possible had been accomplished by the institution. There were fears that it would ultimately fail to meet its obligations. Up to this time the funds for the building of the college and for its maintenance had been secured largely within a radius of four miles of Grove City. President Ketler made known the situation to persons of means at a distance from Grove City, among whom were Mr. J. N. Pew, then of Pittsburgh, and Mr. S. P. Harbison, of Allegheny, Pennsylvania.

Messrs. Pew and Harbison advised the elimination of the stock features of the college so that the institution might be incorporated in the class of eleemosynary institutions. Accordingly on November 3, 1894, the stockholders of the College met in the College Chapel and without a dissenting voice voted to eliminate the stock features and to permit the college charter to be amended so as to place the College in the class of public charities with a self-perpetuating Board of Trustees.

The unanimous vote cast in favor of the change is a remarkable honor to this community. There were 256 stockholders representing different religious denominations, and maintaining different attitudes toward the College. They surrendered their entire property right in the College that others, with larger means, might come to the relief of the College and direct its work. It is possible that one negative vote would have legally checked the desired step.

The fifteen trustees who had been previously chosen by the stockholders became petitioners for the amendments which, when granted, would change the entire legal aspect of the College. The final decree making these changes was ordered on December 10, 1894, a little more than ten years after the College was incorporated. From a stock corporation, in which more than two hundred persons had a property right, it became a corporation in the



class of public charities. The former trustees and fifteen others became the legal guardians or trustees of the new corporation.

The management of the institution up to January, 1895, was lodged in a board of fifteen trustees chosen by the stockholders from their number. Five of these were chosen annually to serve for three years. As the stock was held almost exclusively by citizens of the community within a radius of four miles of the College, the members of the board were necessarily local. But to their wise and careful administration is largely due the success of the College. Severely economical where economy could be practiced with safety, generous even to personal sacrifices when the resources of the College were not adequate to its plainly evident needs, investing every dollar of a sadly insufficient income where it would count most for the advancement of the College, in season and out of season they gave the College their time, their money, and their consecrated service. Among the men of Grove City who never failed in their support of the College were W. A. Young, Thomas W. Dale, R. C. Craig, and J. C. Glenn.

On January 2, 1895, the fifteen trustees who had been appointed under the amended charter met in the College, and elected fifteen additional trustees, who should have a part with them in this trust. The trustees present were W. A. Young, T. W. Dale, J. C. Glenn, W. J. McConkey, D. D., John N. White, Newton Campbell, James Simpson, W. J. McKay, A. M. Craig, Perry F. Say, J. J. McGarvey, Joseph A. McDowell, D. F. Courtney, S. F. Thompson, Esq., and Beriah Magoffin, Esq. They unanimously elected the following citizens of Pennsylvania to serve as trustees: J. N. Pew, A. P. Burchfield, W. J. Young, and J. T. Gibson, D. D., of Pittsburgh; Wm. M. McMillan, D. D., LL. D., Samuel P. Harbison, and W. L. Pierce, Esq., of Allegheny; Edward O'Neil, of Sewickley; Judge Christopher W. Heydrick, of Franklin; W. D. Brandon, Esq., and W. E. Oller, D. D., of Butler; J. T. Blair, of Greenville; David Gilson, of London, and James B. McClelland, D. D., of Grove City.

On January 31, 1895, at 2 P. M., the thirty trustees by lot arranged themselves into three equal classes; one class to serve till the annual meeting, the Tuesday before Commencement, 1896; the second class till the annual meeting in June, 1897; and the third class till the annual meeting in June, 1898. The Board was

fully organized by the election of the following officers: J. N. Pew, president; W. H. McMillan, D. D., LL. D., vice president; J. C. Glenn, secretary; and William A. Young, treasurer.

At the death of William A. Young, the Grove City National Bank was made treasurer. J. N. Pew served as president till his death in October, 1912. At that time F. R. Babcock, of Pittsburgh, was elected president.

Isaac C. Ketler, D. D., LL. D., the founder, was president of the College till his death on July 2, 1913. His successor was Alexander Thomas Ormond, the head of the Department of Philosophy in Princeton University. He held office till his death on December 18, 1915. Weir C. Ketler, the assistant to the president, was elected president on June 13, 1916.

During the more than forty years of its existence there has been constant development in the number, equipment, and scholarship of the Faculty of the College. The ideal has always been that Christian training must be a large part of a true education. The college courses stand for sound and liberal culture, vital religion, and practical efficiency. This school is animated by the spirit of service to God and humanity.

The progress of the College since its reorganization in 1895 has been rapid. At the reorganization the value of the property was estimated at \$100,000. Then there were two buildings. Now the College has a campus of over fifty acres in the center of the town, with nine buildings. The college plant is valued at more than \$700,000.

## THE ENTRANCE REQUIREMENTS

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The requirement for admission to the Freshman class is fifteen units. A unit is the credit allowed for a subject pursued in daily recitations for the full year of at least 34 weeks. The maximum of four units is allowed for the regularly scheduled work of one year in a high school or other secondary school.

Fifteen units credit is equivalent to a full four-year course in a strong high school. Work of the regular four-year high school course cannot be accepted for advanced standing.

Graduates from a course in a three-year high school are required to complete two full terms of work (32 hours) at the College before being classed as Freshmen. Nine hours of the work of these two terms shall be in English and shall be in excess of the English requirement for the baccalaureate degree. The remainder of these thirty-two hours may be prescribed by the Registrar. All of this work will be classed among entrance requirements.

With the approval of the Committee on Admission and Instruction a student may take examinations in certain designated subjects, and upon successfully passing the examination may be credited with more than four units per year of high school residence. A request for this privilege is considered only in the case of students who have taken more than the regular work required during the time spent in residence in the high school.

Applicants for entrance to the courses leading to the degree of Bachelor of Arts, or the degree of Bachelor of Literature must present:

- 3 units in English.
- 3 units in Mathematics.
- 4 units in Latin.
- 2 units in Modern Language.
- 1 unit in Chemistry or Physics.
- The remaining 2 units are elective.

Candidates for the course leading to the degree of Bachelor of Science must present:

- 3 units in English.
- 3 units in Mathematics.
- 2 units in Modern Language.
- 1 unit in Biology.
- 1 unit in Physics.
- 1 unit in Chemistry.

The remaining four units are elective.

It is recommended that the unit in Biology be presented in one branch of Biology, such as Botany or Zoology.

Candidates for the course leading to the degree of Bachelor of Commercial Science must present:

- 3 units in English.
- 2 units in Mathematics.
- 2 units in Foreign Language.
- 1 unit in Science.
- 1 unit in History or History and Civics.

The remaining six units are elective. Not less than one year's work in Book-keeping, Shorthand or Typewriting will be accepted for credit. The maximum credit allowed in these subjects is: Bookkeeping, 2 units; Shorthand, 2 units; Typewriting, 1 unit.

A student who is deficient in any of the work prescribed for admission to one of the college courses may substitute other subjects to make a total of fifteen units, provided he take during his college course such subjects as will make up his deficiency. The following units may be presented:

|                                | Minimum accepted           | Maximum allowed            |
|--------------------------------|----------------------------|----------------------------|
| English .....                  | 2 (see note 1)             | 3 (see note 1)             |
| Mathematics—                   |                            |                            |
| Algebra, elementary .....      | 1                          | 1                          |
| Algebra, intermediate .....    | $\frac{1}{2}$              | $\frac{1}{2}$              |
| Algebra, advanced .....        | $\frac{1}{2}$ (see note 2) | $\frac{1}{2}$ (see note 2) |
| Geometry, plane .....          | 1                          | 1                          |
| Geometry, solid .....          | $\frac{1}{2}$              | $\frac{1}{2}$              |
| Trigonometry, plane .....      | $\frac{1}{2}$ (see note 3) | $\frac{1}{2}$ (see note 3) |
| Foreign Language, total .....  |                            | 8                          |
| Foreign Language, any one..... | 1 (see note 4)             | 4                          |

|                              |               |
|------------------------------|---------------|
| History, total .....         | 4             |
| History, General .....       | 1             |
| History, Ancient .....       | 1             |
| History, Mediaeval .....     | 1             |
| History, Adv. American ..... | 1             |
| History, English .....       | 1             |
| Science, total .....         | 4             |
| Astronomy .....              | $\frac{1}{2}$ |
| Agriculture .....            | $\frac{1}{2}$ |
| Biology .....                | 1             |
| Botany .....                 | 1             |
| Chemistry .....              | 1             |
| Physics .....                | 1             |
| Physiography .....           | 1             |
| Physical Geography .....     | 1             |
| Physiology, advanced .....   | $\frac{1}{2}$ |
| Zoology .....                | 1             |

NOTE 1—As the first English work in the high school course is largely grammar, the credit granted in English is one unit less than the number of years of work in this subject.

NOTE 2—A student presenting Advanced Algebra ( $\frac{1}{2}$  unit) is required to elect during his course, College Algebra II.

NOTE 3—A student presenting Plane Trigonometry ( $\frac{1}{2}$  unit) is required to elect during his course, Spherical Trigonometry or Surveying.

NOTE 4—A student presenting but one unit in any foreign language is required to elect during his course the second year's work in that language.

The units are to be chosen from the following:

ENGLISH. Grammar, Composition and Rhetoric, one unit; Literature, one unit; the third either Advanced Composition or Literature. Every applicant for admission to any of the regular college courses will be subject to a test in English Composition. He will be asked to write a brief essay on some familiar subject. In judging this essay special stress will be placed upon such elementary matters as spelling, capitalization, punctuation, grammar, the proper division of thought into sentences and paragraphs, orderly arrangement and clear expression of ideas. The amount of work in rhetoric required of a student will be determined by this test.

MATHEMATICS. Elementary Algebra, one unit; Plane Geometry, one unit; Intermediate Algebra, Solid Geometry, Advanced Algebra, Plane Trigonometry, each  $\frac{1}{2}$  unit.

LATIN. Elementary Latin, one unit; Caesar, four books, one unit; Cicero, six orations and composition, one unit; Vergil, six books, one unit.

In Cicero and Vergil for less work than above stated  $\frac{1}{2}$  unit each may be allowed.

GREEK. Elementary Greek, one unit; Anabasis, four books and composition, one unit; Homer, three books,  $\frac{1}{2}$  unit.

FRENCH. Elementary French (grammar, conversation and reading of easy texts), one unit; composition and translation, one unit.

SPANISH. Elementary Spanish (grammar, conversation and reading), one unit; composition and translation, one unit.

GERMAN. Elementary German (grammar, conversation and reading of easy texts), one unit; composition and translation (Wilhelm Tell and Immensee or equivalent), one unit.

HISTORY. General, or Greek and Roman,  $\frac{1}{2}$  unit; Mediaeval and Modern,  $\frac{1}{2}$  unit; English,  $\frac{1}{2}$  unit; Advanced American,  $\frac{1}{2}$  unit. In each of these courses, more extended and thorough work may be accepted for a full unit.

PHYSICS. Carhart and Chute, Hoadley, or equivalent, with laboratory.

CHEMISTRY. "First Principles of Chemistry," Brownlee, or equivalent, with laboratory.

ASTRONOMY, BIOLOGY, BOTANY, PHYSICAL GEOGRAPHY, ADVANCED PHYSIOLOGY, ZOOLOGY, each  $\frac{1}{2}$  unit. Exceptionally thorough and extended work in any of these subjects may be accepted as a full unit.

A student presenting a science with laboratory will be asked to present a certified laboratory note-book.

A student unable to carry work in a department to which his accepted units admit him, loses credit in all units up to the work he can carry.

Certificates must state clearly the following points:

1. The number of years at the institution.
2. The fact of graduation, if a graduate.
3. The subjects studied each year.
4. The text-book used in each subject.
5. The number of weeks devoted to each subject.
6. The number of periods per week for each subject.
7. The length of the period.
8. The grade received in each subject.



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Blank forms will be furnished on application to the Registrar.

Students who have passed satisfactory examinations in the subjects required for entrance, are admitted as Freshmen.

A student who has had preparation in a subject but is unable to present a certificate showing the same will be asked to take examination in the subject and upon successfully passing this examination will be credited with the subject. In lieu of examination, the Committee on Admission and Instruction may require the applicant to take advanced courses in the same subject.



## THE COLLEGE COURSES

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The courses leading to the Baccalaureate Degree in Arts, Science, or Literature require 192 hours of work beyond that necessary for entrance to the Freshman class. This means four years' work of 48 hours per year, or 16 hours per term.

### Requirements in Hours for the Degrees

|                               | <i>A.B.</i> | <i>Litt.B.</i> | <i>B.S.</i> | <i>B.C.S.</i> |
|-------------------------------|-------------|----------------|-------------|---------------|
| English Language .....        | 9           | 9              | 9           | 9             |
| English Literature .....      | 9           | 9              | 9           | 9             |
| Latin .....                   | 18          | 18             |             |               |
| Greek .....                   | 30          |                |             |               |
| Modern Language .....         | 9           | 27             | 9*          | 18            |
| Mathematics .....             | 12          | 12             | 21          |               |
| Physics .....                 | 12          | 12             | 21          |               |
| Chemistry .....               |             |                | 21          | 9             |
| Biology .....                 |             |                | 12          |               |
| Bible .....                   | 12          | 12             | 12          | 12            |
| Psychology .....              | 6           | 6              | 6           |               |
| Philosophy .....              | 3           | 3              | 3           |               |
| Economics or American .....   |             |                |             |               |
| History .....                 | 9           | 9              | 9           | 9             |
| Government .....              |             |                |             | 6             |
| Accounting .....              |             |                |             | 18            |
| Commerce .....                |             |                |             | 21            |
| Business Administration ..... |             |                |             | 18            |
| Elective .....                | 51          | 63             | 48          | 51            |
| Physical Training .....       | 12          | 12             | 12          | 12            |
|                               | 192         | 192            | 192         | 192           |

Candidates for the degree of Bachelor of Literature may, with the consent of the Faculty, substitute for the twenty-seven hours in one modern language, nine hours of collegiate grade in each of two modern languages. By collegiate grade is understood German 15, 16, 17; French 15, 16, 17; or Spanish 15, 16, 17.

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\* One year's work of College Latin or Greek will be accepted in lieu of Modern Language.

Candidates for the degree of Bachelor of Literature may, with the consent of the Faculty, substitute for the eighteen hours of collegiate Latin, eighteen hours of another language of collegiate grade. All candidates for the degree of Bachelor of Literature must offer work in two languages for the degree.

Candidates for the degree of Bachelor of Science may present twelve hours of Chemistry, twenty-one of Physics and twenty-one of Biology; or twenty-one of Chemistry, twelve of Physics and twenty-one of Biology, instead of twenty-one of Chemistry, twenty-one of Physics and twelve of Biology.

Students completing their work at the end of the Summer Term are graduated and receive their degree at that time. Students completing their work at the end of the Fall or Winter Term are graduated and receive their degrees in person at the following Commencement.

### Plan of Course for the Degree of Bachelor of Arts

#### FRESHMAN YEAR

| FIRST TERM                           | SECOND TERM                         | THIRD TERM                          |
|--------------------------------------|-------------------------------------|-------------------------------------|
| *English 11 and Oratory 11, 3 hours. | English 12 and Oratory 12, 3 hours. | English 13 and Oratory 13, 3 hours. |
| Latin, 11, 3 hours.                  | Latin 12, 3 hours.                  | Latin 13, 3 hours.                  |
| Greek 11, 5 hours.                   | Greek 12, 5 hours.                  | Greek 13, 5 hours.                  |
| Mathematics 11, 4 hours.             | Mathematics 12, 4 hrs.              | **Mathematics 13, 4 hrs.            |

#### SOPHOMORE YEAR

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| Latin 21, 3 hours.   | Latin 22, 3 hours.   | Latin 23, 3 hours.   |
| Greek 21, 5 hours.   | Greek 22, 5 hours.   | Greek 23, 5 hours.   |
| Physics 21, 4 hours. | Physics 22, 4 hours. | Physics 23, 4 hours. |
| Bible, 3 hours.      | Bible, 3 hours.      | Bible, 3 hours.      |

#### JUNIOR YEAR

|                                       |                                       |                                       |
|---------------------------------------|---------------------------------------|---------------------------------------|
| Modern Language (Course 15), 3 hours. | Modern Language (Course 16), 3 hours. | Modern Language (Course 17), 3 hours. |
| English 31, 3 hours.                  | English 32, 3 hours.                  | English 33, 3 hours.                  |
| Psychology 31, 3 hours.               | Psychology 32, 3 hours.               | Philosophy 33, 3 hours.               |
| Bible 31, 3 hours.                    | Elective, 6 hours.                    | (Logic)                               |
| Elective, 3 hours.                    |                                       | Elective, 6 hours.                    |

#### SENIOR YEAR

|                                      |                                      |                                      |
|--------------------------------------|--------------------------------------|--------------------------------------|
| Economics 31 or History 41, 3 hours. | Economics 32 or History 42, 3 hours. | Economics 33 or History 43, 3 hours. |
| Elective, 12 hours.                  | Elective, 12 hours.                  | Elective, 12 hours.                  |

\* "English 11" "Oratory 11", etc., are titles of prescribed courses. The description of these courses will be found under the various departments.

\* \* Mathematics 21 (Analytic Geometry), Mathematics 23 (Advanced Trigonometry), or Mathematics 25 (Surveying), may be substituted for Mathematics 13 (College Algebra, second term).

Candidates for Departmental Honors are excused from the prescribed junior work in Language and Bible.

## Plan of Course for the Degree of Bachelor of Literature

### FRESHMAN YEAR

| FIRST TERM   | SECOND TERM   | THIRD TERM  |
|--|---|---|
| *English 11 and Oratory<br>11, 3 hours.<br>Modern Language, 3<br>hours.<br>(Course 15) | English 12 and Oratory<br>12, 3 hours.<br>Modern Language, 3<br>hours.<br>(Course 16) | English 13 and Oratory<br>13, 3 hours.<br>Modern Language, 3<br>hours.<br>(Course 17) |
| Latin 11, 3 hours.<br>Mathematics 11, 4 hours.<br>Bible 21, 2 hours.                   | Latin 12, 3 hours.<br>Mathematics 12, 4 hours.<br>Bible 22, 2 hours.                  | Latin 13, 3 hours.<br>**Mathematics 13, 4 hours.<br>Bible 23, 2 hours.                |

### SOPHOMORE YEAR

|  |  |  |
|--|--|--|
| Latin 21, 3 hours.<br>Modern Language, 3 hrs.<br>Physics 21, 4 hours.<br>Psychology 31, 3 hours.<br>Elective, 2 hours. | Latin 22, 3 hours.<br>Modern Language, 3 hrs.<br>Physics 22, 4 hours.<br>Psychology 32, 3 hours.<br>Elective, 2 hours. | Latin 23, 3 hours.<br>Modern Language, 3 hrs.<br>Physics 23, 4 hours.<br>Bible, 3 hours.<br>Elective, 2 hours. |
|--|--|--|

### JUNIOR YEAR

|  |   |  |
|--|---|--|
| Modern Language, 3 hrs.<br>Bible, 3 hours.<br>English 31, 3 hours.<br>Elective, 6 hours. | Modern Language, 3 hrs.<br>English 32, 3 hours.<br>Elective, 9 hours. | Modern Language, 3 hrs.<br>English 33, 3 hours.<br>Philosophy 33, 3 hours.<br>Elective, 6 hours. |
|--|---|--|

### SENIOR YEAR

|  |  |  |
|--|--|--|
| Economics 31 or<br>History 41, 3 hours.<br>Elective, 12 hours. | Economics 32 or<br>History 42, 3 hours.<br>Elective, 12 hours. | Economics 33 or<br>History 43, 3 hours.<br>Elective, 12 hours. |
|--|--|--|

\* and \* \* (Footnotes as on page 25).

Candidates for Departmental Honors are excused from the prescribed junior work in English, Modern Language and Bible.

## Plan of Course for the Degree of Bachelor of Science

### FRESHMAN YEAR

| FIRST TERM  | SECOND TERM  | THIRD TERM   |
|---|--|--|
| *English 11 and Oratory<br>11, 3 hours.<br>Language, 3 hours.<br>Chemistry 11, 5 hours.<br>Mathematics 11, 4 hours.<br>Bible 21, 2 hours. | English 12 and Oratory<br>12, 3 hours.<br>Language, 3 hours.<br>Chemistry 12, 5 hours.<br>Mathematics 12, 4 hours.<br>Bible 22, 2 hours. | English 13 and Oratory<br>13, 3 hours.<br>Language, 3 hours.<br>Chemistry 13, 5 hours.<br>**Mathematics 13, 4 hours.<br>Bible 23, 2 hours. |

### SOPHOMORE YEAR

|   |   |   |
|---|---|---|
| Mathematics, 3 hours.<br>Physics 21, 4 hours.<br>Chemistry, 3 hours.<br>Psychology 31, 3 hours.<br>Elective, 2 hours. | Mathematics, 3 hours.<br>Physics 22, 4 hours.<br>Chemistry, 3 hours.<br>Psychology 32, 3 hours.<br>Elective, 2 hours. | Mathematics, 3 hours.<br>Physics 23, 4 hours.<br>Chemistry, 3 hours.<br>Bible, 3 hours.<br>Elective, 2 hours. |
|---|---|---|

## JUNIOR YEAR

English 31, 3 hours.  
 Physics 31, 3 hours.  
 Biology, 4 hours.  
 Bible, 3 hours.  
 Elective, 2 hours.

English 32, 3 hours.  
 Physics 32, 3 hours.  
 Biology, 4 hours.  
 Elective, 5 hours.

English 33, 3 hours.  
 Physics 33, 3 hours.  
 Biology, 4 hours.  
 Philosophy 33, 3 hours.  
 Elective, 2 hours.

## SENIOR YEAR

Economics 31 or History  
 41, 3 hours.  
 Elective, 12 hours.

Economics 32 or History  
 42, 3 hours.  
 Elective, 12 hours.

Economics 33 or History  
 43, 3 hours.  
 Elective, 12 hours.

\* and \* \* (Footnotes as on page 25).

Candidates for Departmental Honors are excused from the prescribed work in English, Bible and Sciences.

BACHELOR OF SCIENCE IN CHEMICAL  
ENGINEERING

In the past ten years there has been a very marked growth in the application of scientific thought to the commercial and industrial life of the Nation. This application has been much intensified under the stress of war conditions. In no other line of science has this development been more rapid than in the field of Chemistry. The College has arranged the following course leading to the degree of Bachelor of Science in Chemical Engineering with the view of equipping the graduates to take positions requiring a knowledge of the industrial applications of chemistry. The advantage of taking such specialized work in the cultural atmosphere of a college rather than in the intensely practical atmosphere of a technical school cannot be overestimated.

## Plan of Chemical Engineering Course

## FRESHMAN YEAR

## FIRST TERM

General Chemistry, 5 hrs.  
 General Physics, 4 hours.  
 Math. 11, 4 hours.  
 Language, 3 hours.

## SECOND TERM

General Chemistry, 5 hrs.  
 General Physics, 4 hours.  
 Math. 12, 4 hours.  
 Language, 3 hours.

## THIRD TERM

General Chemistry, 5 hrs.  
 General Physics, 4 hours.  
 Mechanical Drawing, 4 hrs  
 Language, 3 hours.

## SOPHOMORE YEAR

Qualitative Analysis, 5  
 hours.  
 Analytical Geometry,  
 3 hours.  
 Geology, 5 hours.  
 Freshman English, 3  
 hours.

Qualitative Analysis, 5  
 hours.  
 Differential Calculus, 3  
 hours.  
 Organic Chemistry, 5  
 hours.  
 Freshman English, 3  
 hours.

Qualitative Analysis, 5  
 hours.  
 Integral Calculus, 3  
 hours.  
 Organic Chemistry, 5  
 hours.  
 Freshman English, 3  
 hours.

## JUNIOR YEAR

|                                   |                                   |                                   |
|-----------------------------------|-----------------------------------|-----------------------------------|
| Advanced Mechanics,<br>3 hours.   | Advanced Heat, 3 hours.           | Advanced Electricity, 3<br>hours. |
| Physical Chemistry, 4<br>hours.   | Physical Chemistry, 4<br>hours.   | Physical Chemistry, 4<br>hours.   |
| Industrial Chemistry,<br>3 hours. | Industrial Chemistry, 3<br>hours. | Industrial Chemistry, 3<br>hours. |
| Bible, 3 hours.                   | Bible, 3 hours.                   | Bible, 3 hours.                   |
| Psychology, 3 hours.              | Psychology, 3 hours.              | Logic, 3 hours.                   |

## SENIOR YEAR

|  |  |  |
|--|--|--|
| Food Chemistry and Or-<br>ganic Analysis, 5 hours. | Food Chemistry and Or-<br>ganic Analysis, 4 hours. | Food Chemistry and Or-<br>ganic Analysis, 5 hours. |
| Adv. Phys. Lab., 2 hours.                          | Adv. Phys. Lab., 2 hours.                          | Eng. Lit., 3 hours.                                |
| Eng. Lit., 3 hours.                                | Eng. Lit., 3 hours.                                | Research, 5 hours.                                 |
| Research, 5 hours.                                 | Research, 3 hours.                                 |  |
| Bible, 3 hours.                                    |  |  |

## BACHELOR OF COMMERCIAL SCIENCE

The purpose of the College in offering a Course in Commerce is to give to the student who is preparing for a business career or to a teacher in a commercial high school; a training which embodies not only the essential technical courses needed by the business man or business woman but also to afford the student a general cultural education which will fit him to occupy a large place in the life of his community. The course, as outlined, offers a certain amount of elective privilege which will be distributed among those subjects in which the student is most vitally interested. It is also possible to modify the course in minor details where it is found desirable. Such modifications should be made in consultation with the Registrar.

The course covers four years. Entrants are required to have a four-year high school course or the equivalent. The degree of Bachelor of Commercial Science is granted upon the satisfactory completion of the work.

Plan of Course for the Degree of Bachelor of  
Commercial Science

## FRESHMAN YEAR

| FIRST TERM                         |              | SECOND TERM                        |              |
|------------------------------------|--------------|------------------------------------|--------------|
|                                    | Hrs. Credit. |                                    | Hrs. Credit. |
| English 11 and<br>Oratory 11 ..... | 4 3          | English 12 and<br>Oratory 12 ..... | 4 3          |
| Accounting 11 .....                | 3 3          | Accounting 12 .....                | 3 3          |
| Science .....                      | 3 3          | Science .....                      | 3 3          |
| Government 12 .....                | 3 3          | Government 13 .....                | 3 3          |
| Modern Language .....              | 3 3          | Modern Language .....              | 3 3          |

## THIRD TERM

|                       | Hrs. | Credit. |
|-----------------------|------|---------|
| English 13 and        |      |         |
| Oratory 13 .....      | 4    | 3       |
| Accounting 13 .....   | 3    | 3       |
| Science .....         | 3    | 3       |
| Commerce 13 .....     | 3    | 3       |
| Modern Language ..... | 3    | 3       |

The following subjects will be required of students showing a lack of preparation:

Secretarial 1.....5hrs. Secretarial 2.....5 hrs. Secretarial 3.....5 hrs.

No credit is given for Secretarial 1, 2 or 3.

## SOPHOMORE YEAR

## FIRST TERM

|                       | Hrs. | Credit. |
|-----------------------|------|---------|
| English 31 .....      | 3    | 3       |
| Accounting 21 .....   | 3    | 3       |
| Commerce 21 .....     | 3    | 3       |
| Commerce 25 .....     | 3    | 3       |
| Modern Language ..... | 3    | 3       |

## SECOND TERM

|                       | Hrs. | Credit. |
|-----------------------|------|---------|
| English 32 .....      | 3    | 3       |
| Accounting 22 .....   | 3    | 3       |
| Commerce 22 .....     | 3    | 3       |
| Commerce 26 .....     | 3    | 3       |
| Modern Language ..... | 3    | 3       |

## THIRD TERM

|                       | Hrs. | Credit. |
|-----------------------|------|---------|
| English 33 .....      | 3    | 3       |
| Accounting 23 .....   | 3    | 3       |
| Commerce 23 .....     | 3    | 3       |
| Commerce 27 .....     | 3    | 3       |
| Modern Language ..... | 3    | 3       |

## JUNIOR YEAR

## FIRST TERM

|                               | Hrs. | Credit. |
|-------------------------------|------|---------|
| Economics 31 .....            | 3    | 3       |
| Business Administration 31. 3 | 3    | 3       |
| Electives .....               | 9    | 9       |

## SECOND TERM

|                               | Hrs. | Credit. |
|-------------------------------|------|---------|
| Economics 32 .....            | 3    | 3       |
| Business Administration 32. 3 | 3    | 3       |
| Electives .....               | 9    | 9       |

## THIRD TERM

|                               | Hrs. | Credit. |
|-------------------------------|------|---------|
| Economics 33 .....            | 3    | 3       |
| Business Administration 33. 3 | 3    | 3       |
| Electives .....               | 9    | 9       |

## SENIOR YEAR

## FIRST TERM

|                               | Hrs. | Credit. |
|-------------------------------|------|---------|
| Business Administration 41. 3 | 3    | 3       |
| Bible .....                   | 3    | 3       |
| Electives .....               | 9    | 9       |

## SECOND TERM

|                               | Hrs. | Credit. |
|-------------------------------|------|---------|
| Business Administration 42. 3 | 3    | 3       |
| Bible .....                   | 3    | 3       |
| Electives .....               | 9    | 9       |

## THIRD TERM

|                               | Hrs. | Credit. |
|-------------------------------|------|---------|
| Business Administration 43. 3 | 3    | 3       |
| Bible .....                   | 3    | 3       |
| Electives .....               | 9    | 9       |

## SUGGESTED ELECTIONS

Common and Business Law: A three-term course covering the essential principles of Common and Business Law. Emphasis will be placed on the practical applications of the Law.

Commercial Teachers: Shorthand and Typewriting. Psychology and Education may be substituted for required subjects of equal value provided permission be granted by the Registrar.

Private Secretaries: Shorthand and Typewriting.



Students Preparing to Enter Foreign Trade (government or private): Additional language or continuation of first language, International Law, Foreign Trade, Statistics.

Students Preparing to Enter General Business: Mechanical Drawing, additional work in Economics, Statistics, Credit.

Civil Service: Additional work in Government, American History and Economics, Statistics.

Church Secretaries: Psychology, Education, Shorthand and Typewriting.

Shorthand and Typewriting must be taken together, 5 hours a week each, 5 credits being allowed for Shorthand, 2 for Typewriting.

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## PRE-MEDICAL REQUIREMENTS

For those intending to enter Medical Schools, the College offers opportunities for receiving instruction to meet the requirements of the best schools, and the strongest state boards of control of medical certification. The state board of Pennsylvania and of many other states require one year's credit in work of collegiate grade in each of the three sciences, biology, chemistry, and physics. At least two recitations and two laboratory periods a week are required in each of the sciences. The Medical Colleges in Pennsylvania require in addition to the above work in the sciences, English, psychology, modern language, and advanced chemistry sufficient to make a total of two years college work. Medical school requirements are met by the two-year course outlined in the following plan:

### FIRST YEAR

Chemistry 11, (5); 12, (5); 13, (5).  
Biology 11, (5); 16, (5); 17, (5).  
English 11, (3); 12, (3); 13, (3).  
Oratory 11, 12; 13.  
Mathematics 11, (4); 12, (4); 13, (4).

### SECOND YEAR

Modern Language (3); (3); (3).  
Chemistry 21, (5); 42, (5); 43, (5).  
Physics 21B, (5); 22B, (5); 23B, (5).  
Psychology 31, (3); 32, (3).  
Philosophy 33, (3).

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## TWO-YEAR SECRETARIAL COURSE

The two-year Secretarial Course will be continued, emphasis being placed upon the clerical subjects.

The class entering college in the fall of 1919 for the two-year Secretarial Course will be classed as Freshmen; their second year they will be classed as Sophomores. Two-year students will



receive their certificates upon Commencement Day, but will have no part in the Class Day Exercises.

In character, the course is designed to give the student a thorough knowledge of the principles of bookkeeping, of stenography and typewriting, and of allied subjects. During the first year special emphasis will be placed on the technical side of the work. Moreover, the student will receive a thorough drill not only in Business English and Business Correspondence but will have the advantage of receiving throughout both years a college course in English. The importance of such courses can hardly be over estimated. They should give the student not only a knowledge of the technique of the language but also an appreciation of good English and the ability to use the mother tongue correctly.

During the second year thorough courses in Commercial Law and Commercial Geography, in addition to the course in college English have been introduced to widen the student's knowledge and to give him training in those subjects which are most essential in modern business.

For those who give satisfactory evidence of the completion of any considerable portion of the course, an opportunity will be given to substitute college subjects such as Languages, History, English, etc.

All students who are candidates for graduation in this Secretarial Course will be required to be high school graduates or to satisfy the Matriculation Committee of the College that they have the equivalent preparation. Students desiring special work and who do not wish to complete the entire course may be admitted with the consent of the College authorities. No diploma will be granted unless the requirements of the course are fulfilled.

## Outline of Two-Year Secretarial Course

### FIRST YEAR

| FIRST TERM                          | SECOND TERM                         | THIRD TERM                          |
|-------------------------------------|-------------------------------------|-------------------------------------|
| English 11 and Oratory 11, 4 hours. | English 12 and Oratory 12, 4 hours. | English 13 and Oratory 13, 4 hours. |
| Secretarial 1, 5 hours.             | Secretarial 2, 5 hours.             | Secretarial 3, 5 hours.             |
| Accounting 11, 3 hours.             | Accounting 12, 3 hours.             | Accounting 13, 3 hours.             |
| Stenography 11, 5 hours.            | Stenography 12, 5 hours.            | Stenography 13, 5 hours.            |
| Typewriting 11, 5 hours.            | Typewriting 12, 5 hours.            | Typewriting 13, 5 hours.            |
| Physical Training, 2 hours.         | Physical Training, 2 hours.         | Physical Training, 2 hours.         |

**SECOND YEAR****FIRST TERM**

English 31, 3 hours.  
Accounting 21, 3 hours.  
Stenography 21, 5 hours.  
Typewriting 21, 5 hours.  
Commerce 25, 3 hours.  
Physical Training, 2 hours.

**SECOND TERM**

English 32, 3 hours.  
Accounting 22, 3 hours.  
Stenography 22, 5 hours.  
Typewriting 22, 5 hours.  
Business Administration,  
42, 3 hours.  
Physical Training, 2 hours.

**THIRD TERM**

English 33, 3 hours.  
Accounting 23, 3 hours.  
Stenography 23, 5 hours.  
Typewriting 23, 5 hours.  
Commerce 23, 3 hours.  
Physical Training, 2 hours.

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**GRADE VALUES**

The grade values used in rating the quality of work are: A, 95 to 100 per cent.; B, 90 to 95 per cent.; C, 80 to 90 per cent.; D, 70 to 80 per cent.; E, 50 to 70 per cent., conditioned; F, below 50 per cent., failure; P, passed without rank. "A" and "B" are considered honor grades. Failure to take the final examination at the end of a course, or, in any other way to complete the work of a course, causes that course to be graded "E." In a course requiring laboratory practice, uncompleted laboratory work or unapproved laboratory reports cause that course to be graded "E."

A student who receives a condition, "E," in a subject has the opportunity of taking a special examination in this subject during his next succeeding term in college and on passing such special examination is graded "P" (passed). These special examinations are held according to a schedule published during the first week of the term. If the condition is not removed at the end of such next succeeding term, the mark of condition "E" is considered as a mark of failure, "F."

All "E" and "F" grades in a student's record must be removed by special examination or repetition of courses before a degree is conferred upon the student. A student whose record shows continued unsatisfactory work may at any time be dropped from the rolls of the College.

**STUDENT PROGRAMS**

The regular program of work requires sixteen hours a term and, in general, a student in the regular courses is not permitted to take a schedule of more than sixteen hours.

A student, two-thirds of whose credits for each of two successive terms have been of honor grade is entitled to a schedule of 17, 18 or 19 hours credit. Failure to maintain the proportion of two-thirds honor grades for a schedule of 17, 18 or 19 hours makes it necessary for the student to return to the sixteen hour schedule. "E" or "F" grade causes the term in which such grade is received to be excluded from consideration for schedules beyond sixteen hours.

If a student has for two successive terms carried a schedule of 18 or 19 hours with all honor grades, he may apply to the Registrar for the privilege of taking 20 or 21 hours. Twenty-one hours is the limit of credit allowed for a term. If a student who is taking 20 or 21 hours falls below honor grade in more than one-third of his work for that term, he must return to the sixteen hour schedule; if he falls below honor grade in any work which is less than one-third of his schedule, he may be required to return to the sixteen hour schedule, but must return to the nineteen hour schedule. "E" or "F" grade causes the term in which such grade is received to be excluded from consideration for schedules beyond sixteen hours.

### ADVANCED STANDING

A student who applies for advanced standing at this college on the basis of credits from another college may receive credit on a college course up to sixteen (16) hours a term or forty-eight (48) hours a year. If during his next two terms at Grove City College he has done work of a grade entitling him under the rules to an increment of schedule hours, the Committee on Admission may, at its option, grant him a corresponding increment of credit for work done at the college from which he came; the credit granted for the work at the other college in no case exceeds twenty-one (21) hours a term, or sixty-three (63) hours a year. Each semester hour at a college is considered as one and one-half ( $1\frac{1}{2}$ ) term hours. Blank forms for certification of collegiate work done at another institution may be obtained from the Registrar.

### GENERAL HONORS

On graduation the students whose work meets the requirements stated in the following paragraphs are granted their degrees with honors.

A student whose grades average from 93% to 96% is eligible to honors on graduation and, unless the Faculty rules otherwise, receives the honor "cum laude."

A student whose grades average from 96% to 97.5% is recommended to the Faculty for the honor "magna cum laude."

A student whose grades average 97.5% may be recommended to the Faculty for the honor "summa cum laude."

In reckoning these values, A equals 97.5, B equals 92.5, C equals 85., D equals 75., P equals 70.

### DEPARTMENTAL HONORS

A student who has completed two full years of college work and has maintained an honor standing in at least four-fifths of his studies, may at the beginning of his third (junior) year select a department in which he has not fallen below honor grade, in which department he shall do two-fifths of his work in his third (junior year) and three-fifths in his fourth (senior) year. The remainder of his studies shall be taken outside of the department that he has chosen and are free electives subject only to the requirements of the general course of study.

During the fourth (senior) year, it is at the discretion of the instructor or instructors to conduct seminars in the chosen department and to substitute research work and thesis for the regular class room exercises and examinations.

A candidate for departmental honors who falls below honor grade in the studies of his chosen department at the end of any term, is required to give up the course for special honors and to resume the regular course of study.

A student who has successfully completed the studies of his chosen department and has maintained honor standing in them and who has not fallen below "C" in non-departmental studies

receives special honors in his department and has the same indicated upon his diploma.

An honor student is required to elect a major and a minor within his chosen department, the major to include three-fifths of the honor work of the last two (junior and senior) years.

It is understood that where two or more professors are assigned to a single department the one whose subject is the major in any given case is considered the head of the department for that student.

The following departments are open to students entitled to elect courses to departmental honors:

The Department of Philosophy and Education, in which either Philosophy or Education may be either a major or a minor.

The Department of History, Economics and Politics, in which either History or Economics and Politics combined may be either a major or a minor.

The Department of English including English Literature as a major and either Composition and Oratory or English Bible as a minor.

The Department of Classical Languages including Latin and Greek, either of which may be a major or a minor. Archaeology and Sanskrit are included in this department as elective but non-honor subjects.

The Department of Modern Languages, including French, Spanish and German, one of which may be a major or a minor. Italian and Romance Philology are included in this department as elective but non-honor subjects.

The Department of the Sciences and Mathematics, including Chemistry, Physics, Biology, and Mathematics, of which any two constitute a department for the student electing them; the other two are considered extra-departmental. Agriculture, Astronomy, Geology, and Mechanical Drawing are included in this department as elective but non-honor subjects.

**REGULATIONS GOVERNING INTER-COLLEGIATE CONTESTS**

Only collegiate students may represent the College on teams of recognized college organizations. Absences incurred by the student, while representing a recognized college organization, are not counted off his gratuity.

No student, who has failed in more than one subject during his preceeding term in college, may represent the institution on collegiate organizations.

No student doing "E" or "F" grade work in more than one subject may represent the college on collegiate organizations.

No student may represent the college on any one recognized college organization more than four years.

The coach in charge of the team shall furnish the Secretary with an authorized list of team men, which list shall be read at the regular meeting of the Faculty preceding the contest.



## GRADUATE DEGREES

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### REQUIREMENTS FOR THE MASTERS DEGREE

The possession of baccalaureate degree (A. B., Litt. B., Ph. B., or B. S.) or what the Matriculation Committee regard as the equivalent, is essential.

Every candidate, when admitted and before entering on the course of study, is required to pay a matriculation fee of \$5.00.

Each candidate for the degree is required to complete three terms work in residence within three calendar years from the date of his matriculation. The regular schedule of work shall be four courses per term to be distributed as follows: three within the department, the fourth outside the chosen department. All courses are to be chosen in consultation with, and with the consent of the Registrar and the Head of the Department in which the student's major work is taken. Any course may be elaborated by assigned reading or research work.

The work of the candidate may not fall below honor rank (A or B). In case the candidate's work falls below this standard the Matriculation Committee, in consultation with the head of the department in which the student is majoring, may assign additional work or may require the student to abandon the course.

A thesis on a subject growing out of the student's main line of study is required. The subject for this thesis is chosen in consultation with the head of the department and must manifest ability to do independent work and to judge the relative values of various sources of information. The thesis is to be typewritten with black record ribbon, double space, on good quality paper of letter size, 8½x11 inches. There is to be a margin of 1½ inches at the left hand edge and 1 inch on the other three sides. When handed in, the thesis becomes the property of the College. It is to be handed in not later than April 20th of the third year following the



student's matriculation. After this has been accepted the student may be asked to present himself for final examination.

When the thesis has been accepted the candidate is required to pay a diploma fee of \$10.00. When all requirements have been met, he is recommended for the Master's degree which is conferred upon him in person at the following Commencement.

## GENERAL INFORMATION

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### PREPARATION FOR RELIGIOUS WORK

The number of graduates of the College who have taken up some form of religious work is large. Strong work in the Classics, English, and Philosophy has built a solid foundation for later development. Every year a number of graduates enter the various theological seminaries. The reports from these schools show that the graduates of Grove City College are well trained in habits of thought and study.

### THE SUMMER TERM

For more than thirty years Grove City College has maintained a summer term in addition to the three regular terms of the college year.

**REGULAR COLLEGE WORK.** The courses offered in the summer term make it possible for a student to complete a college course in three years. These courses also appeal to men and women who are teaching and who are anxious to better prepare themselves for professional work. The same courses in music, arts, science and business are maintained as in other terms. The credit granted in the summer term is prorated to compare with the length of the term. The normal schedule is sixteen hours but carries only twelve hours credit.

**SPECIAL WORK FOR TEACHERS.** In addition to the courses offered during the regular year there will be maintained in the summer term, in practically all departments, courses of special interest to teachers. Furthermore, at the suggestion of the State Department of Public Instruction special courses will be maintained in methods of teaching, school art, music, etc. These courses are designed for teachers in the first six grades. Those who expect to secure provisional, professional or permanent teacher's certificates will be expected to take these courses.

THE STATE DEPARTMENT OF PUBLIC INSTRUCTION, in the future, require teachers who have work above the sixth grade to be specially prepared in the subjects taught. Those wishing to teach such subjects in grades above the sixth grade must have the equivalent of twelve semester hours of college credit in the field in which they expect to teach. Teachers now holding permanent certificates should plan to take work in college and prepare themselves to teach in the Junior and Senior High School.

### **BIBLE SCHOOL**

Early in August the Grove City Bible School holds its session. The morning is confined to lectures on various topics of special interest to Clergymen and Christian laymen. The afternoon is devoted to the work of the Mission School, which is of great interest to all those in any way connected with religious work. The evening is devoted to preaching services.

The following speakers appeared on the program for 1920: The Reverend Mark A. Matthews, D. D., of the First Presbyterian Church of Seattle, Wash.; Reverend Charles E. Jefferson, D. D., of the Broadway Tabernacle Church of New York, N. Y.; Bishop William F. Oldham, of the Methodist Episcopal Church; Professor R. D. Wilson, D. D., of Princeton Theological Seminary; Professor William R. Farmer, of the Western Theological Seminary; Professor G. A. Johnston Ross, of the Union Theological Seminary; Reverend John McDowell, D. D., General Secretary of the Board of Home Missions of the Presbyterian Church; Professor George M. Sleeth, of the Western Theological Seminary; Reverend O. R. Avison, D. D., of Korea; Reverend H. S. Vincent, D. D., of Siam; Reverend C. H. Yerkes, of China; Reverend James G. Hunt, of the Pittsburgh Theological Seminary.

### **PREPARATION FOR TEACHING**

The graduate of a college is eligible to receive a provisional college certificate from the Department of Public Instruction of Pennsylvania, if during his college course he has completed two hundred recitation hours' work in educational subjects. This requirement is covered by a credit of seventeen hours. The educational subjects include psychology, ethics, logic, history of

education, school management, and methods of teaching. As six hours of psychology and three hours of logic are required of all candidates for degrees, many have availed themselves of the work offered in Education to complete the requirement for teachers' certificates. After teaching successfully for three years, the holder of a provisional college certificate is eligible to receive the permanent college certificate.

### WORK PRELIMINARY TO ENGINEERING

If a young man, after graduating from high school, has spent two years in the cultural, humanitarian atmosphere of a college of liberal arts, he has received a fundamental training in the best things which enables him to grasp more quickly and to use better a later training in applied science. The student who is well grounded in pure science can with little effort develop in the sphere of applied science. He is a better engineer or doctor for his training in college; in addition to this he is a better citizen, more in sympathy with his fellow citizens and better able to assist in the solution of economic problems. Grove City College offers thorough work in the fundamentals of mathematics, physics, chemistry, and biology. This fundamental work in these subjects is carried on with the ideal of pure science rather than that of utilitarianism. With two years at college, a young man who has availed himself of the opportunities in science and mathematics can complete a course in an engineering school in three years.

### THE TOWN

Grove City College is located in Grove City, Pennsylvania, a town of about five thousand, on the Bessemer and Lake Erie Railroad. The town is 1300 feet above sea level and is supplied with pure water from artesian wells. The health conditions are excellent. This, together with the beauty of the surroundings and progressive character of the town, gives Grove City advantages possessed by few college towns. Connections are made at Butler with the Buffalo, Rochester & Pittsburgh and the Pennsylvania Railways, at Mercer with the Pennsylvania, and at Osgood with the Lake Shore. There are four daily trains to Pittsburgh and to Erie.

### THE COLLEGE

Grove City College is a non-denominational Christian college. No religious test is required of members of the Board of Trustees, Faculty, or student body. The College emphasizes Christian character, and from it there go out many young men and women to enter the gospel ministry or engage in other Christian work. More men enter the gospel ministry from this institution than from any other college in Pennsylvania. Each year, in August, a Bible Conference is held under the auspices of the College. This Conference continues ten days, and at it special courses by distinguished scholars and clergymen from both sides of the Atlantic are offered.

College work is begun each day with devotional exercises. Divine services are held each Sabbath morning in the chapel. College prayer-meetings are held regularly during each session.

Grove City College stands for classical education broadened by thorough work in mathematics and the sciences.

### THE ISAAC C. KETLER MEMORIAL FOUNDATION

This Foundation was the natural outgrowth of the feeling that a fitting memorial should be established to the memory of Dr. Isaac C. Ketler, the Founder and First President of Grove City College. This feeling took definite form at the annual meeting of the Alumni Association in June, 1914, when a committee was appointed to consider the matter, and in its report recommended that the Alumni Association raise a fund of Sixty Thousand Dollars to be used as permanent endowment and this be known as the Isaac C. Ketler Memorial Foundation. The report of the committee was unanimously adopted and a permanent committee was appointed. At the Alumni meeting in June, 1916, it was announced that the entire Sixty Thousand Dollars had been subscribed. Mr. F. R. Babcock, President of the Board of Trustees, announced at the same time that the Trustees had raised a like amount to be added to the Foundation, thus making a fund of One Hundred and Twenty Thousand Dollars to be used as a permanent memorial to the founder and builder of Grove City College.

### **SAMUEL P. HARBISON CHAIR OF BIBLE**

The action creating the Samuel P. Harbison Chair of Bible was taken at the regular meeting of the Board of Trustees on February 1, 1918. The action represented the unanimous will of the members of the Board and was a voluntary and grateful testimony of their appreciation of the large and vital part played by Mr. Harbison and his Estate in the growth of the College.

Mr. Samuel Pollock Harbison joined the Board of Trustees of Grove City College at the time of its reorganization in 1895. During the remainder of his life he was active in all the counsels of the College and was one of its most generous benefactors. He was a man of rare spiritual insight and his influence on the ideals of the College has been deep and lasting.

The chair is one of the most liberally endowed chairs of its kind in the country. The endowment totals \$55,000. Of this amount, \$45,000 was given by the Harbison Estate and \$10,000 by the College Board of the Presbyterian Church.

### **OTHER ENDOWED FUNDS**

In addition to the endowed funds mentioned above, the College has other general endowment funds.

### **LIEUTENANT JAMES PEEBLES OVER PRIZE**

Through the generosity of an alumnus of Grove City College, a memorial prize has been established. The prize which is an annual one of Twenty-five Dollars is to be awarded to the student making the best record in extemporaneous speaking during the year. The method of selection will be determined by the Faculty. The prize will be known as the Lieutenant James Peebles Over Prize. Lieutenant Over who served with the American Expeditionary Forces and lost his life in France, was a close personal friend of the alumnus establishing the prize.

### **SELF HELP**

Grove City College has endeavored to offer an education to men and women of moderate means. In the past, an exceptionally large number of students have during their college course



earned all or a large portion of their expenses. The college endeavors in every way to assist students desiring self help. Many are given opportunities to wait on tables and to assist in other work around college buildings. The manufacturing and business interests of the town afford a number of places for ambitious men and women who are earning their way through college.

Each year a Silliman prize of \$50.00 is granted to the student who shows unusual promise.

### **THE CAMPUS**

The campus of about fifty acres is located in the center of the town and is divided into two nearly equal portions by Wolf Creek. On the left bank are the dormitory for men and woodlands. On the right bank is the main campus with the athletic field and the other college buildings. These college buildings are heated with steam and lighted with electricity supplied from a central power plant.

### **THE BUILDINGS**

The Administration Building, erected in 1888, is a four-story brick building and contains the offices, several recitation rooms, two laboratories for chemistry, two large rooms for use of the commercial school, and club rooms for the four literary societies.

Recitation Hall, a two-story brick building erected in 1879, contains six recitation rooms, the art studio, and two rooms for biology.

Physics Building, erected in 1902, contains a lecture room, several laboratories, and a large room for mechanical draughting. It is well equipped with apparatus for instruction in both general and advanced physics.

Ivy Chapel contains a small auditorium for the use of the student organizations, a large recitation room, and a rest room for the young women of the college.

Carnegie Library contains, in addition to the library and reading room, a public auditorium with seating capacity for six hundred, in which is a two-manual pipe organ.



Music Hall, erected in 1895, is equipped with auditorium, recitation and practice rooms, containing the facilities for carrying on the work of the Conservatory of Music.

The Gymnasium, erected in 1912, is a large and modernly equipped building for the general use of the Athletic Department. It is a substantial brick and steel structure, three stories high, 120 feet long and 60 feet wide, and contains in addition to locker rooms, a swimming pool, shower baths, baseball cage, varsity room, and a visiting team room on the first floor; reception room, Athletic Director's room, office, and kitchen on the second floor, and on the third floor, in addition to the running track, a large private room and a number of study rooms for gymnasium caretakers.

The Colonial; Pelton, and Cunningham, the dormitories for young women and Memorial Hall are described in the section for room and boarding.

### HOSPITAL

A hospital is maintained in Grove City, where the sick of the college receive the best attention by trained nurses under the supervision of a competent superintendent. The hospital building is near the college grounds and is well located. It has all the modern conveniences and appliances and has gained a very enviable reputation for the excellent care given to the patients, and the fine work done by the physicians and surgeons of the hospital staff.

The hospital expenses of the students are met through a special fund set apart for this purpose. In every case the hospital expenses for a period not exceeding two weeks (not medical fees) are met by the College.

### STUDENT ORGANIZATIONS

There are four literary societies in the college—Shakespeare and Webster, for young men; Speedwell and Philokalian, for young women. These societies have been in existence from twenty to thirty years, and are composed of the best talent in the student body. Each society has its own club room which is well furnished and equipped. The order of exercises includes

orations, debates, music, impromptu speeches, and friendly criticism.

There are healthy, active branches of both Y. M. C. A. and Y. W. C. A. among the students.

### ROOMS AND BOARDING

The Colonial, Cunningham, and Pelton Halls—the ladies' dormitories—are under the immediate control of the Dean of Women, and are designed to provide comfortable and pleasant homes for young women. Students from out of town are required to room and board at the dormitories. The students' rooms are arranged mostly in suites of two with bath room for each suite. There are also some single rooms with bath. Each room is furnished for occupancy by two girls. Each girl furnishes her own towels and bed linen which are laundered by the College. The personal linen of each girl is laundered at her own expense.

Room and boarding at the Colonial for the twelve weeks sessions is \$111.00 for the term, two girls occupying a room. On the fourth floor the rate is reduced to \$102.00 a term, two girls occupying a room. On the fourth floor, three girls occupying one large room can be accommodated at \$102.00 for the term of twelve weeks. On lower floors where three occupy a room a charge of \$105.00 is made for the term of twelve weeks.

At the Pelton and Cunningham Cottages room and boarding is furnished at \$102.00 a term of twelve weeks, two occupying a room.

Memorial Hall, the dormitory for young men, was erected in 1914, equipped and furnished as a memorial to Joseph Newton Pew, who was for many years the President of the Board of Trustees of Grove City College and who had a very vital part in the development and growth of the institution. The building is located on high ground on the left bank of the creek, overlooks the campus and commands a view of the surrounding country. It is of thoroughly fire-proof construction throughout. The building is divided into five separate houses separated from each other by fire-walls.

There are accommodations for approximately one hundred

and ten students. Several different and very attractive arrangements of rooms have been provided. In the end sections, there are a number of large rooms for two students. Each room has two large wardrobes with shelves and plenty of hooks, and is located near a bath room. Each suite has a large study room with two or three single bedrooms and opens directly into a bath-room.

The furnishings of the building received the special attention of the donors and the result is that in the furniture and equipment the building is believed to have no superior. The furniture is of solid fumed oak and is of the modified mission type. It is substantial and gives one the impression of permanence and elegance. The beds are enameled malleable iron and are fitted with the best grade of springs and mattresses. In each study room there are large desks with drawers for each student, desk chairs, a rocker, a most comfortable and especially designed couch, and, also, what adds much to the appearance of the room, an open fireplace with a mantel.

The prices charged include rentals for room, furniture, with mattresses, pillows and blankets, janitor service, heat and light. Few colleges in the country are so liberal in their provisions. Students should provide bed-linen, towels, and comforts, and care for the same.

Room and boarding at Memorial Hall for the twelve weeks session is \$102.00 to \$114.00 per term. The rate for single rooms on the ground floor is \$102.00 two students in a room. The rate for single rooms on the other floors is \$105.00. In the second, third and fourth sections, suites of three rooms, occupied by two students, rent at a rate of \$114.00. In the first section there are suites of four rooms occupied by three students at the rate of \$114.00.

A fee of five dollars (\$5.00) will be charged for room reservations in the College dormitories. This fee may be applied on room rental or left with the College as a permanent reservation fee.

All students not from Grove City will be required to room and board in the College dormitories except when given permission by the proper college authorities.

The general control of Memorial Hall is in the hands of a student committee working under the Advisory Committee of the Faculty. This committee is elected by the students residing at Memorial Hall from among their number. The committee has general charge of all questions of order and discipline, though the Faculty reserves the right to veto their actions.

### TUITIONS

The tuition is forty dollars (\$40) for the term of twelve weeks and thirty dollars (\$30) for the summer term of nine weeks. This tuition entitles the student to any course in the collegiate department, to the use of the gymnasium, to entrance to all athletic contests and to care in the hospital in case of illness.

In the courses requiring laboratory practice, the student is charged a laboratory fee. In biology and physics, this fee is three dollars (\$3) in all courses requiring one laboratory period (2 to 2½ hours) a week; in chemistry the fee is five dollars (\$5) in all courses requiring one laboratory period. In courses in physics and biology requiring more than one laboratory period, an additional fee of two dollars (\$2) is charged for each additional period. In courses in chemistry requiring more than one laboratory period an additional fee of three dollars (\$3) is charged for each additional period. The fees are usually as follows: in biology, \$3 or \$5; in physics, \$3 or \$5; in chemistry, \$5 or \$8; in mechanical drawing, \$5; in surveying, \$3.

### TABLE OF EXPENSES

|   |                  |
|---|------------------|
| Tuition .....   | \$ 40.00         |
| Special examination in any subject.....                             | 1.00             |
| Mechanical drawing .....  | 5.00             |
| Surveying .....   | 3.00             |
| Biology laboratory .....  | \$ 3.00 or 5.00  |
| Chemistry laboratory .....  | 5.00 or 8.00     |
| Physics laboratory .....  | 3.00 or 5.00     |
| Typewriting .....   | 5.00             |
| Board and room at the Colonial, ladies, a term.....                 | 102.00 to 111.00 |
| Board and room at the Pelton or Cunningham, ladies,<br>a term ..... | 102.00           |
| Board and room at Memorial Hall, men, a term.....                   | 102.00 to 114.00 |

All tuitions and other college bills are due at the opening of the term; students who have not paid these bills or arranged for their payment, will be excluded from classes after the first week of the term. Laboratory fees must be paid at the end of the third week of the term. Students with unpaid laboratory fees are excluded from classes at the beginning of the fourth week.

Boarding charges are dependent on the general price level of commodities and are therefore subject to change.

No registration or matriculation fee is charged; no entrance fee is charged to college athletic games.

A student voluntarily leaving college during the first four weeks of the term is refunded one-half of the tuition.

No deduction is made for absence the first two weeks or last two weeks of a term for any cause whatever. For absence two consecutive weeks or more on account of the student's personal sickness, one-half the boarding charges for the time lost will be refunded, provided the student's physician in attendance certifies that the illness was of such nature as to render his return to school impossible. The College provides for hospital care of students up to two weeks in any term. No refund is made for any period for which the College has paid for hospital care.

No refunds on room charges are made to students leaving college during any term.

No refunds are made in cases of students suspended or dismissed from college.

The necessary expenses per term of twelve weeks for men and women residing in dormitories are:

|                         |           |          |
|-------------------------|-----------|----------|
| Tuition .....           | \$ 40.00  | \$ 40.00 |
| Room and Boarding ..... | 102.00 to | 114.00   |
| Books about .....       | 8.00      | 8.00     |
| Total .....             | \$150.00  | \$162.00 |

#### ABSENCE REGULATIONS

A total gratuity of as many class absences a term as he has class recitations a week is allowed to each student.

The gratuity in each course a term is equal to the number of recitations in the course a week.

A gratuity of fifteen absences a term from Chapel is allowed to each student. Absence from Sunday Chapel is counted as three on the gratuity for Chapel.

This gratuity is granted the student to cover all absences for any reason whatever.

When a student exceeds his gratuity in any subject, he becomes subject to discipline.

Absences are counted from the first recitation in each course.

Absence from class affects the grade of the student for that course.

The Dean of the Faculty has control of the question of absences; all requests should be made to him at his regular office hours. Permissions for absences hold for one term only and are renewed only by application to the Dean each term.

All such requests for optional attendance at the Chapel must be made to the Dean within one week of registration in college.



## DEPARTMENTS OF INSTRUCTION

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On the following pages is given an account of the work done in each course in the various departments. The courses are numbered as follows: Freshman courses, 11 to 19; Sophomore courses, 21 to 29; Junior courses, 31 to 39; Senior courses, 41 to 49; Graduate courses above 50. The courses are regularly taught as follows: In the fall term, courses 11, 15, 21, 25, 31, 35, 41, 51, 55; in the winter term, courses 12, 16, 22, 26, 32, 36, 42, 46, 52, 56; in the spring term, courses 13, 17, 23, 27, 33, 37, 43, 47, 53, 57; in the summer term, courses 14, 18, 24, 28, 34, 38, 44, 48, 54, 58. Some courses are repeated other terms; this is particularly true in the summer term.

Following the description of each course is given the name of the text used, the titles of courses which are requisite to the work of the course, and statement of the credit given for the course. In all courses an equivalent text may be substituted for the one named.



## DEPARTMENT OF PHILOSOPHY

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*President Ketler, Professor Reagle*

PHILOSOPHY 33. Logic: An elementary course in the forms of reasoned thinking, both deductive and inductive; lectures and recitations illustrated by numerous examples in logical praxis. Text-book: Creighton's Introductory Logic. Prerequisite: Psychology 31 and 32. Credit, 3 hours.

PHILOSOPHY 35. Introduction to Philosophy: An historical approach to the problems of metaphysics and epistemology; lectures and reports. Text-book: Calkins: The Persistent Problems of Philosophy. Prerequisite: Psychology 32 and Philosophy 33 are advised. Credit, 3 hours.

PHILOSOPHY 37. The Philosophy of the Christian Religion: A study of Christianity and the religions of the world historically investigated and philosophically construed with a purpose "to give a reason for the faith that is within us"; to learn the quest of man after God, and the quest of God after man. Text-book: Fairbairn: The Philosophy of the Christian Religion. Credit, 3 hours.

PHILOSOPHY 43. Ethics: A constructive study of ethical theory with an account of its philosophical basis, and a review of the great historical systems. Text-book: D'Arcy's Ethics. Prerequisite: Psychology 32. Credit, 3 hours.

PHILOSOPHY 45. History of Philosophy: A study of the Greek Mediaeval periods in philosophy, including a survey of the Pre-Socratic and Socratic Schools; an examination of Stoicism, Epicureanism, and Scepticism, and a study of Neo-Platonism and the Scholasticism of the early Christian Fathers. Text-book and additional readings. Credit, 3 hours.

PHILOSOPHY 46. History of Philosophy: A study of the modern philosophers beginning with Descartes and including the principal philosophers of the French, English and German Schools. A portion of the time may be devoted to contemporary leaders of philosophic thought. Text-book and additional readings. Credit, 3 hours.

## DEPARTMENT OF PSYCHOLOGY AND EDUCATION

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*Professor Platt*

### PSYCHOLOGY

PSYCHOLOGY 31. General Psychology, first term: An introduction to the procedure of psychology, the nature of consciousness, the relationship between consciousness and the nervous system, and the process of sensation-perception. This course provides the foundation for the work of Psychology 32. Text-book: Angell's Psychology. Credit, 3 hours.

PSYCHOLOGY 32. General Psychology, second term: A course presenting a consideration of memory and imagination, the ideational processes, the feelings, will, and the various dynamic phases of consciousness. A detailed study of the reactions of environment, suggestion, and inclination is made. After completing Psychology 32, a student should not only be able to understand the customary reactions to the extra-mental world, but should be able to analyze motives and reactions in such a way as to make practical application of this knowledge to his own life. Text-book: Angell's Psychology. Prerequisite: Psychology 31. Credit, 3 hours.

PSYCHOLOGY 33. Genetic Psychology: A study of the beginnings and growth of mental life, tracing the types of adaptive activity or intelligence through the physiological, sensory-motor, representative, and conceptual stages. Students preparing to teach should avail themselves of this course in order to better understand the mental life of the pupils under their care. Text-book: Kirkpatrick's Genetic Psychology. Prerequisite: Psychology 32. Credit, 3 hours.

PSYCHOLOGY 37. Educational Psychology: A consideration of those aspects of psychology which form the basis for rational education, and to show their practical application to the problems of the schoolroom. Prerequisite: Psychology 32. Credit, 3 hours.

PSYCHOLOGY 43. Social Psychology: A study of the nature of the social mind, the influence of the individual on the group and the influence of the group on the individual. This course is particularly valuable to prospective teachers, ministers, and lawyers. Text-book: Ross' Social Psychology. Prerequisite: Psychology 32. Credit, 2 hours.

PSYCHOLOGY 47. Abnormal Psychology: A course dealing primarily with diseased and abnormal mentality, but considers also many of the unusual phases of normal mental life. It ranges in its interests from the absent-mindedness of every day life to the phenomena of hysteria and multiple personality. Prospective physicians and lawyers as well as teachers should find this course of value. Prerequisite: Psychology 32. Credit, 3 hours.

#### EDUCATION

EDUCATION 31. History of Education, first term: A study of the great educational periods and tendencies of history beginning with education as a non-progressive adjustment as found among the primitive races and tracing the development of educational content and method to the close of the Reformation. Text-book: Monroe: A Text-book in the History of Education. Credit, 3 hours.

EDUCATION 32. History of Education, second term: A course taking up the realistic conception of education, and from that as a starting point a critical study of the various educational movements is made. Prerequisite: Education 31. Credit, 3 hours.

EDUCATION 35. History of Secondary Education: A study of secondary education in its process of development. Perhaps more than any other phase of education, secondary education reflects the interests and ideals of a nation. Students **who may be interested in the educational tendencies of the present day** will find this course instructive and interesting. Prerequisite: Education 31, or Education 32. Credit, 2 hours.

EDUCATION 36. General Methods: A study of the principles underlying the process of learning, together with methods of directing and assisting others in the learning process. If a teacher understands the broad, general principles upon which

teaching is builded, he may apply these principles to the special subjects which he may be called upon to teach. Prospective teachers should avail themselves of this course. Credit, 2 hours.

EDUCATION 41. Principles of Education: A consideration of the bases, aims, values, and essential content of education; principles underlying the administration of the curriculum; the agencies that educate; and a review of the fundamental psychological principles that a teacher should understand. Text-book: Ruediger's Principles of Education. Credit, 2 hours.

EDUCATION 42. Principles of Secondary Education: A study of the special problems characteristic of the high school, and an application of the methods of teaching to high school subjects. Adolescence is studied in its relation to the learning process, and in its relation to the interests peculiar to this period of life. Text-book: Monroe's Principles of Secondary Education. Prerequisite: Education 41. Credit, 3 hours.

EDUCATION 43. Philosophy of Education: A philosophical consideration of education in the light of what is known of biology, sociology, and psychology. No teacher is thoroughly prepared for the teaching profession who has not studied and reflected upon the subject of education in these connections. Such a course of study should give teachers a new and deeper understanding of the inner significance of education as an agency of human development. Text-book: Horne's Philosophy of Education. Prerequisites: Psychology 32, and Education 41. Credit, 2 hours.

EDUCATION 45. Educational Sociology: A consideration of the individual and society as the two fundamental elements in the educational process, and their relations and the part each plays in the common life-process. Teachers should understand the means that education employs in utilizing the powers and capacities of the individual to fit him in the social system of which he is a part. Prerequisite: Education 41. Credit, 2 hours.

EDUCATION 46A. Social Principles of Secondary Education: A survey of the policies, examples, and suggestions of ways and means of making the socializing work of the high school more definite and more effective. A study of the social principles of secondary education is demanded by the new awakening all over the country to a realization of the social and democratic meaning

as well as the purely instructional nature of secondary education. Text-book: Johnstone: The Modern High School.

Credit, 2 hours.

EDUCATION 46B. Education of the Exceptional Child. The purpose of this course is to give an insight into what the problem of the exceptional child may be. It is concerned with the educational procedure, but the character of the human material which is to be educated plays a fundamental part. Thus, questions of heredity and family history, of environment and social-economic conditions, of child hygiene and public sanitation, and numerous other elements are considered. Having completed a course of this kind, teachers will be better prepared to deal with children under their care who may deviate from the normal. Text-book: Crossmann: The Exceptional Child. Prerequisite: Psychology 32.

Credit, 2 hours.

EDUCATION 47. High School Supervision: A course designed for those who are already quite familiar with principles of school management. Consideration is given to the subjects that form the central feature of the activities of the school, to the line of contact where the personality of the teacher meets that of the pupil in the learning process, and to the problems connected with the presentation of the program of studies. Text-book: Hollister's High School Supervision. Prerequisite: Education 42.

Credit, 2 hours.

EDUCATION 49. Theory and Practice of Teaching: An attempt, so far as it is possible with the limited time and facilities, to put into practice the theory of teaching as outlined in other courses and as review in this course. Students will be given opportunity to conduct recitations from time to time under direct supervision. (Open to a few students only.)

Credit, 3 hours.



## DEPARTMENT OF HISTORY, ECONOMICS AND GOVERNMENT

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*Professor Hatfield*

### HISTORY

HISTORY 11. Greece and the Hellenistic Age to 146 B. C.: A survey of the institutions of Greek life, government, society, religion, and the expansion of Greek life and thought under Alexander; collateral readings from histories of Greece by Holm and Duruy with other readings from the sources; reports. Text-book: Bury's History of Greece. Credit, 3 hours.

HISTORY 12. The Roman Republic to Julius Caesar; Collateral readings in histories of the Romans by Mommsen, Botsford and others; source reading and reports. Text-book: Pelham's Outlines of Roman History. Credit, 3 hours.

HISTORY 13. The Roman Empire, Julius Caesar to Justinian: Collateral readings in the several leading histories of the Empire; source reading and reports. Text-book: Jones: The Roman Empire. Credit, 3 hours.

HISTORY 21. Mediaeval History, Justinian to the Renaissance 1450. Topics: Results of the Roman Empire, The Papacy, Monasticism, Feudalism, Beginnings of Modern States, The Church of the Middle Ages, Heresy, The Friars, Culture of the Middle Ages, The Great Church Councils, Italy 1300-1500, Renaissance, The Early Reformation. Readings in the Sources for this period; Robinson's Collections. Text-book: Robinson's History of Western Europe, Chapters 1 to 24. Credit, 3 hours.

HISTORY 22. Europe between 1450 and 1800: The foundations of Modern Europe; colonial and dynastic rivalries; rise of modern states; the French revolution; the industrial revolution; source readings, Robinson's Collection. Text-book:

Hayes: A Political and Social History of Modern Europe, Volume 1. Credit, 3 hours.

HISTORY 23. Europe in the Nineteenth Century, and to the present time: Reactions after Napoleon, industrial revolution, Nationalism, Latin Europe, Teutonic Europe, rise of Russia and Prussia, unification of Italy, the Ottoman empire, spread of European civilization, War of 1914. Text-book: Hayes: A Political and Social History of Modern Europe, Volume II. Collateral readings with reports. Credit, 3 hours.

HISTORY 31. History of England from the beginning to 1485: Early settlements, beginning of Christianity in England, early social and political customs, the Kingship, Normandy, representative Government, ecclesiastical conflicts. Source readings with reports. Text-books: Gardiner's History of England, Chapters 1 to 23; Chegney's Industrial and Social History of England. Credit, 3 hours.

HISTORY 32. History of England, 1485-1750: The Tudor Monarchy, the Reformation in England, Parliament, rise of the middle class, commerce, expansion, Puritan Revolution, the Kingship, political parties, Scotland, Ireland. Same text-books and plan as in History 31. Credit, 3 hours.

HISTORY 33. History of England 1750 to the present time: Whigs and Tories, economic systems, colonial growth, Parliament, England and the French Revolution, democracy and reform, free trade, imperialism, industrial and commercial developments. Same text-books and plan as in History 31 and 32. Credit, 3 hours.

HISTORY 41. American History, Colonial Period. Text-books: Bassett's History of the United States, The American Nation Series, West's American Government, Source Book in American History, Messages and State Papers. Collateral readings with reports. Credit, 3 hours.

HISTORY 42. History of the United States 1783 to 1837: The Constitution and organization of the Government, political parties and constitutional questions, social and industrial growth, expansion of territory and sectionalism, tariff, finance and monetary history, the War of 1812 and the New Americanism, slavery, nullification, the new democracy. Credit, 3 hours.



HISTORY 43. History of the United States from 1837 to the present time: Slavery, States' rights, sectionalism, economics and social growth, politics, foreign relations, the Civil War, reconstruction, arbitration, finance, civil service, suffrage and tariff reforms, industrial growth and combinations, imperialism, problems of expansion, European War. Same texts and plan as History 41 and 42. Credit, 3 hours.

HISTORY. Special Courses. One of the following courses will be offered each term, according to election by students:

1. Renaissance and Reformation.
2. The Roman Republic.
3. Roman Private Law.
4. The Government of Athens; Aristotle's Constitution of Athens.

#### ECONOMICS

ECONOMICS 11. A First College Course in the Elements of Economics. Text-book: Ely, Adams, Lorenz, Young's Outlines of Economics. Books I and II, pages 1 to 640. Credit, 3 hours.

ECONOMICS 31. Principles and Theories of Economics. Topics: Wealth and labor, modern industry, features of modern production, capital, value and exchange, money and banking, international trade. Text-book: Taussig's Principles of Economics, Volume I. Credit, 3 hours.

ECONOMICS 32. Principles and Theories of Economics. Topics: Distribution of wealth, land and agriculture, labor, wages, population, insurance, transportation, combinations and trusts, socialism, taxation. Text-book: Taussig's Principles of Economics, Volume II. Credit, 3 hours.

ECONOMICS 33. Money and Banking. Text-book: Holdsworth's Money and Banking. Credit, 3 hours.

ECONOMICS 34. Labor Problems. Text-book: Adams and Summer's Labor Problems. Credit, 3 hours.

ECONOMICS 35. Principles of Rural Economics. Text-book: Carver's Principles of Rural Economics. Credit, 3 hours.

ECONOMICS 36. Elements of Railway Economics. Text-book: Acworth's Elements of Railway Economics. Credit, 3 hours.

**ECONOMICS 41.** Economic History: A survey of economic phenomena in various countries, with special attention to England and the United States since 1750; law, commerce, finance, industry, and successive Economic Systems. Prerequisite: Economics 11, or Economics 31 and 32. Credit, 3 hours.

A year's work in Economics and Government is planned for the Freshman year by combining Economics 11 and Government 12 and 13 into one group.

### GOVERNMENT

**GOVERNMENT 12.** The American Government: The essential principles and forms of organization of the federal and state government, and local government. Text-books: Beard's The American Government and Politics, and Forman's Advanced Civics, Parts I and II. Parallel readings, with reports. Credit, 3 hours.

**GOVERNMENT 13.** The Functions of the American Government. Topics: Political theories as to scope and functions of government, laws, defense, international relations, taxation, national finance, state finance, public debt, taxation, money, commerce, elections, education, corporations, labor, crime, charities, police powers. Text-books: Beard's The American Government and Politics, and Forman's Advanced Civics, Part III. Parallel readings with reports. Prerequisite: Government 12. Credit, 3 hours.

**GOVERNMENT 41.** Modern European Governments: Three or four of the most important governments of Europe will be studied, the selection being made according to the conditions of current events. Text-books: Ogg's European Governments, and Dodd's Modern Constitutions. Collateral readings with reports. Credit, 3 hours.

**GOVERNMENT 42.** Modern European Governments: A study of other governments of Europe than those selected for Government 41. Text-books: Ogg's European Governments, and Dodd's Modern Constitutions. Collateral readings with reports. Credit, 3 hours.

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GOVERNMENT 43. An Introduction to the study of Political Science: The origin of government, theories of government, historical forms of government and changes in the forms, the sphere of government. Text-book: Leacock: The Elements of Political Science. Parallel readings with reports.

Credit, 3 hours.

## DEPARTMENT OF ENGLISH

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*English: Professor McEuen, Professor Ketler*

*The Bible: Professor Reagle*

*Oratory: Miss Griffin*

*Library: Miss Dunbar*

### ENGLISH

ENGLISH 11. English Composition: The systematic discussion of the principles of composition, with practice in the writing of numerous brief papers; collateral reading and critical discussion of models of various types of writing; individual criticism of students' themes at times appointed by the instructor. Text-book: Woolley's Handbook of Composition. Prerequisite: High School English. Credit, 2 hours.

ENGLISH 11 and ORATORY 11 are combined as one course.  
Credit, 3 hours.

ENGLISH 12. English Composition: The discussion and application of the principles of composition, together with the critical study of models. Text-book: Woolleys Handbook of Composition. Credit, 2 hours.

ENGLISH 12 and ORATORY 12 are combined as one course.  
Credit, 3 hours.

ENGLISH 13. Argumentation: Study of the principles and methods of formal debate; practice in both oral and written argument. Text-book: Duncan, Denney and McKinney's Argumentation and Debate. Credit, 2 hours.

ENGLISH 13 and ORATORY 13 are combined as one course.  
Credit, 3 hours.

ENGLISH 15. American Poetry: Bryant, Poe, Emerson. Text-book: Page's The Chief American Poets. Credit, 3 hours.

ENGLISH 16. American Poetry: Longfellow, Lowell and Holmes. Text-book: Page's The Chief American Poets.

Credit, 3 hours.

ENGLISH 17. American Poetry: Whittier, Whitman and Lanier. Text-book: Page's The Chief American Poets.

Credit, 3 hours.

ENGLISH 15, 16, and 17 are required for all graduates of a three-year high school.

ENGLISH 31. Introduction to English Literature: Classroom reading and discussion of works illustrative of the various types of English literature. The Renaissance and the Seventeenth Century:—Chaucer, Shakespeare, Spencer, Bacon, Bunyan, Milton. Prerequisite: English 11, 12, 13.

Credit, 3 hours.

ENGLISH 32. Introduction to English Literature: Readings in English literature in the Eighteenth Century:—Swift, Addison, Steele, Pope, Johnson, Gray, Goldsmith, Cowper, Burns.

Credit, 3 hours.

ENGLISH 33. Introduction to English Literature: Readings in the prose and poetry of the Nineteenth Century:—Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Carlyle, Ruskin, Arnold, Tennyson, Browning.

Credit, 3 hours.

ENGLISH 35. Milton: The critical study of Paradise Lost, Paradise Regained, and Samson Agonistes; informal lectures, assigned readings and reports. Prerequisite: English 31, 32, 33.

Credit, 3 hours.

ENGLISH 36. English Poetry, 1789-1832: Burns, Wordsworth, Coleridge, Scott.

Credit, 3 hours.

ENGLISH 37. English Poetry, 1798-1832: Byron, Shelley, Keats. Prerequisite: English 36.

Credit, 3 hours.

ENGLISH 35A. Shakespearean Tragedy: The study of Hamlet, Macbeth, King Lear and Othello, with lectures on the nature of tragedy.

Credit, 3 hours.

ENGLISH 36A. Shakespearean Comedy: Six comedies of Shakespeare, with collateral study of the Elizabethan stage.

Credit, 3 hours.

ENGLISH 37A. Contemporary Drama: The main tendencies of the modern stage. Text-book: Dickinson's Chief Contemporary Dramatists. Credit, 3 hours.

ENGLISH 41. Teacher's Course in Literary Criticism: A study of the principles of literary criticism and of the relation of literature to science. Lectures, discussions, and reports. Text-book: Painter's Elementary Guide to Literary Criticism. Credit, 3 hours.

ENGLISH 42. A continuation of English 41. Credit, 3 hours.

ENGLISH 43. A continuation of English 42. Credit, 3 hours.

ENGLISH 45. Carlyle: The study of Carlyle's work in its leading phases with a consideration of his relation to contemporary thought and letters; informal lectures and assigned readings. Prerequisite: English 31, 32, 33. Credit, 3 hours.

ENGLISH 46. Tennyson: The study of selected poems illustrative of the development of Tennyson's art; informal lectures and assigned readings. Credit, 3 hours.

ENGLISH 47. Browning: Interpretive reading and critical discussion of Browning's representative work. Credit, 3 hours.

### BIBLE

BIBLE 21. Old Testament History: The Hebrew Patriarchs and the early Founders of the Nation: a study of the books from Genesis to Ruth in the light of corroborative testimony from other sources. Credit, 3 hours.

BIBLE 22. Old Testament History: The Hebrew Monarchy, the Exile, and the Restoration. The historical books from Samuel to Esther will be studied, supplemented by historical data from the Prophets and outside sources. Credit, 3 hours.

BIBLE 23. The Hebrew Prophets. An introduction to the study of Prophecy with the special study of one or more of the books of the Major Prophets. Credit, 2 hours.

BIBLE 24. Hebrew Wisdom Literature: A general introduction to the works of the Hebrew Sages and Poets with a special study of Job. Credit, 2 hours.



BIBLE 31. The Life of Christ. Text-book: Stevens and Burton's Harmony of the Gospels. Credit, 3 hours.

BIBLE 32. The Apostolic Church. The history of the Acts and Epistles. Text-book: Burton: The Records and Letters of the Apostolic Age. Credit, 3 hours.

BIBLE 33. A History of the English Bible, including manuscripts and versions. Credit, 2 hours.

BIBLE 34. A study of selected Pauline Epistles, with more detailed study of the Epistle to the Romans. Credit, 2 hours.

BIBLE 35. The History of the Christian Church: An outline study of the history of the Christian Church; the circumstances of its origin, early developments, changes which led to the Reformation, and the influences which have resulted in the present life of the Church. Text-book: Walker. Credit, 3 hours.

### ORATORY

ORATORY 11. Interpretation and Presentation of literature; exercises for freeing the body and voice. Text-book: Emerson's Evolution of Expression, Vol. I. Two recitations a week. Credit: Combined with English 11 for a credit of 3 hours.

ORATORY 12. Presentation of literature paying attention to the Parts of the selection. Text-book: Emerson's Evolution of Expression, Vol. II. Two recitations a week. Credit: Combined with English 12 for a credit of 3 hours.

ORATORY 13. Presentation of literature finding the service rendered the whole by each part. Text-book: Emerson's Evolution of Expression, Vol. III. Two recitations a week. Credit: Combined with English 13 for a credit of 3 hours.

ORATORY 21. Physical Culture; a special set of physical exercises is given: Vocal Culture; breath control, placing of tones, resonance: Pantomime; presentation of scenes from life for criticism: Literary Interpretation; two of the last four steps of Evolution of Expression: Recital: Story; telling assigned stories. Four recitations a week. Credit, 2 hours.

ORATORY 22. Physical Culture; use of the exercises of Oratory 21 in quotations and selections: Vocal Culture; tone

projection, radiation: Pantomime; poised groups representing different thoughts and emotions: Literary Interpretation; the last two steps in Evolution and Expression: Recital: Story; telling and classifying stories. Four recitations a week.

Credit, 2 hours.

ORATORY 23. Physical Culture; special selections with attention paid to gesture; spontaneous gesture: Vocal Culture; compass, smoothness, power and brilliancy of tone: Pantomime; short plays produced from subjects given; scenes from well known dramas or stories: Literary Interpretation; beginning Sixteen Perfective Laws of Art: Recital: Story; the stories of different nations; the use of the story; stories for the different ages of children. Four recitations a week.

Credit, 2 hours.

ORATORY 31. Gesture; technique: Literary Interpretation; expressive study of description and narration; poetry: Recital: Dramatics; reading of one-act plays: Oratory; study of extracts from famous orations. Four recitations a week.

ORATORY 32. Gesture; selections with criticism given especially to gesture: Literary Interpretation; poetry and dramatic literature: Recital: Dramatics; presentation of one-act plays; stage setting; business: Oratory; analysis and presentation of orations. Four recitations a week.

ORATORY 33. Gesture; spontaniety and calculation; the physiology and psychology of gesture: Literary Interpretation; prose, poetry, bible: Recital: Dramatics; presentation of one-act plays with costume: Oratory; study and writing of orations. Four recitations a week.

ORATORY 41. Literary Interpretation with drill on the Sixteen Perfective Laws of Art: Impersonation of the child: Recital: Dramatic Interpretation of one tragedy from Shakespeare: Public Speaking with the writing and presenting short speeches on current topics. Four recitations a week.

ORATORY 42. Literary Interpretation with drill on the Sixteen Perfective Laws of Art: Monologue: Dialect: Recital: Dramatics; presentation of scenes from plays studied in Oratory 41: Public Speaking with talks from notes on current topics. Four recitations a week.

ORATORY 43. Literary Interpretation; higher attitudes of the mind and soul: Delineation of character: Public recital: Dramatics; reading and presentation of scenes from one of Shakespeare's comedies: Public Speaking; longer speeches without notes upon current events; topics from history and literature. Four recitations a week.

ORATORY 31, 32, 33, 41, 42, 43 do not yield credit applying toward the requirements for a baccalaureate degree. Students graduating in any of the academic courses who have taken the four years work in Oratory will be given a special certificate in Oratory.

### LIBRARY

BIBLIOGRAPHY AND GENERAL REFERENCE. The purpose of this course is to train students in the proper use of the library and to familiarize them with the principal reference books. It comprises lectures on classification of books, the catalogue, indexes, dictionaries, encyclopaedias, public documents, graded lists of children's literature, selection and management of school libraries, story telling.

The student is given test problems and reference lists to work out. Stress is laid upon current events and the best sources for such. A bibliography on some approved subject is required of each student.

Practice work: As the library is free to both College and town the work at the desk gives the student in charge practical experience in work with both adults and children. Practice work in the story hour is given to those desiring special work with the children.

The course for the first term is a general course and is without college credit. The class for the second term and third term is formed from those who have shown marked ability in the first term's work.

Lecture, 2 hours; Practice work, 3 hours, throughout the year.  
For second and third terms, credit, 1 hour.

## DEPARTMENT OF CLASSICAL LANGUAGES

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*Latin: Professor Calderwood*

*Greek: Professor Oliphant*

### LATIN

LATIN 11. Cicero; De Senecute and De Amicitia: A study of the text with reference to the grammar, contemporary history and philosophic thought. Text-book: Chase and Stuart. Prerequisite: Latin, 4 units. Credit, 3 hours.

LATIN 12. Latin Composition: A thorough review of grammar and vocabulary. Text-book: Barss' Latin Composition, Book 2. Credit, 3 hours.

LATIN 13. Livy, Book 1. Books 2, 21 or 22 may be substituted for Book 1. Credit, 3 hours.

LATIN 21A. Plautus; Captivi et Trinummus: A study of the Latin drama. Taught in 1920-1921. Prerequisite: Latin 11. Credit, 3 hours.

LATIN 21B. Terence; Phormio and Selections: A study of the Latin drama. Taught in 1921-22. Prerequisite: Latin 11, or equivalent. Credit, 3 hours.

LATIN 22. Tacitus. Annals, Book 1 with contemporary history. Credit, 3 hours.

LATIN 23. Horace: Selections from the odes, epodes and satires, with a study of the metre, mythology and literature. Credit, 3 hours.

LATIN 24. Tusculan Disputations, Book 1: A study of Roman Philosophy. Credit, 3 hours.

LATIN 31A. Social Life at Rome in the time of Cicero: Library work, thesis. Text-book: Fowler. Taught in 1920-21. Credit, 2 hours.

LATIN 31B. Roman Political Institutions. Taught in 1921-22. Text-book: Abbott. Credit, 2 hours.

LATIN 32. Quintilian. Selections from Books 10 and 12: Discussion of Latin writers. Prerequisite: Latin 11, or equivalent. Credit, 2 hours.

LATIN 33. Advanced Composition. Text-book: Arnold: Latin Composition. Prerequisite: Latin 12. Credit, 2 hours.

LATIN 34. Roman Historians. Text-book: Scool, Mierow and Jones: Selections from Roman Historians. Credit, 2 hours.

LATIN 41. Cicero's Letters. Selected letters. Text-book: Abbott. Credit, 2 hours.

LATIN 42. Suetonius. Selections from the Lives of the Caesars. Text-book: Pike. Credit, 2 hours.

LATIN 43. Vergil. Rapid reading in selected portions from Books 7 to 12 of Vergil's Aeneid. Credit, 2 hours.

LATIN 8, 9 and 10. Vergil's Aeneid. Translation with a study of the metre and of the grammar and mythology; Emphasis is laid on the Aeneid as a work of literature. Credit, 3 hours.

The following courses in Cicero may be offered if necessary:

LATIN 6. Cicero, first term: The first three orations against Catiline with a thorough study of the grammar involved. Five recitations a week. Credit, 3 hours.

LATIN 7. Cicero, second term: The Fourth Oration against Catiline; Manilian Law. Five recitations a week. Credit, 3 hours.

#### GREEK

GREEK 11. The Elements of Greek. This course is for those who begin the study in College. It aims to secure a thorough mastery of the principal inflections, a careful study of the leading principles of syntax, the acquisition of a small but efficient vocabulary and a facility in reading and writing easy sentences in Greek. Due attention is given to cognate and derivative words and to comparison with Latin morphology and with Latin and English syntax. Text-book: Gleason and Atherton's First Greek Book. Credit, 5 hours.

GREEK 12. The Elements of Greek. This continues Course 11 and concludes with a special review of irregular verbs and a study of word composition. Credit, 5 hours.

GREEK 13. Xenophon: Anabasis, Book I. There is a rigid insistence upon an adequate and idiomatic translation and an accurate understanding and interpretation of the text. As an important ancillary, especial emphasis is laid upon the syntax of the case, mood, tense and participle. Credit, 5 hours.

GREEK 21. Xenophon: Anabasis, Book II, and Prose Composition. To the studies emphasized in Course 13 is now added a special consideration of the outstanding stylistic features of Book II, as a propaedeutic to the student's later training in literary appreciation. About half the term is given to prose composition. Credit, 5 hours.

GREEK 22. Xenophon: Anabasis, Books III and IV. This includes a study of Xenophon as man, commander and author, of the historical importance of the expedition, Hellenic tactics, etc. Credit, 5 hours.

GREEK 23. Homer: Iliad. Books I and II, and selections from others, with due attention to the language, verse and poetic qualities of Homer. Credit, 5 hours.

Courses 11, 12, 13, 21, 22 are each taught several times during the year.

The following courses are taught 1920-21 by Professor Oliphant.

GREEK 31A. Herodotus: Selections. A reading of considerable portions of his Historia with a review of the origin of historical composition among the Hellenes and a study of the Ionic dialect. Prerequisite: Greek 22. Credit, 3 hours.

GREEK 32A. Plato: Apology and Crito. A study of the life of Socrates. Credit, 3 hours.

GREEK 33A. Homer: Odyssey. Selections from Books I to XII. Credit, 3 hours.

GREEK 34A. Xenophon: Hellenica or Memorabilia. Credit, 3 hours.



GREEK 35A. Xenophon: Minor Works, usually the Oeconomicus, Hiero or Agesilaus. Credit, 2 hours.

GREEK 36A. Greek Prose Composition. The writing of connected discourse in Greek and study of Greek and English idiom. Credit, 2 hours.

GREEK 37A. Euripides: Alcestis or Ion. Credit, 2 hours.

GREEK 38A. Cebes: Pinax, and Dion Chrysostomus: Hunters of Euboea, or equivalents. Credit, 2 hours.

GREEK 41A. Plutarch: Life of Pericles. A study of the "Golden Age of Athens." Prerequisite: Greek, 6 hours among courses 31-38. Credit, 3 hours.

GREEK 42A. Sophocles: Oedipus Tyrannus, Antigone. The Greek Theatre: Origin of Tragedy. Credit, 3 hours.

GREEK 43A. Aristophanes: Frogs, Wasps. Origin of Comedy. Credit, 3 hours.

GREEK 44A. Theocritus: Idylls. Influence on later pastoral poetry. Credit, 3 hours.

GREEK 45A. Sophocles: Ajax, Electra or Philoctetes. Credit, 2 hours.

GREEK 46A. New Testament: Gospels. Credit, 2 hours.

GREEK 47A. New Testament: Selected Pauline Epistles. Credit, 2 hours.

GREEK 48A. New Testament: Acts. Credit, 2 hours.

The following courses are taught 1921-22:

GREEK 31B. Lysias: Selected Orations. Lysias, exemplar of the "Plain Style," illustrates the straight-forward practical oratory. Credit, 3 hours.

GREEK 32B. Plato: Phaedo. A study of the greatest teacher of Hellenism on the loftiest and universally interesting subject, the immortality of the soul. Credit, 3 hours.

GREEK 33B. Homer: Odyssey. Selections from Books XIII-XXIV. Credit, 3 hours.

GREEK 34B. Thucydides: Selections from I and II and the story of the Sicilian Expedition. Credit, 3 hours.

GREEK 35B. Plato: Minor Dialogues. Usually Charmides. Laches, Lysis, Euthyphro, Ion, or Menexenus.

Credit, 2 hours.

GREEK 36B. Greek Prose Composition. A course parallel to Greek 36A, and alternating with it.

Credit, 2 hours.

GREEK 37B. Euripides: Bacchae or Medea.

Credit, 2 hours.

GREEK 38B. Anthology of Hellenic Prose. Selections from Wright and Shadwell's Golden Treasury or similar works.

Credit, 2 hours.

GREEK 41B. Lucian: Selections from Vera Historia and Dialogues, illustrative of Lucianic fun and mischief, mastery of satire and modern spirit. Prerequisite: Same as for 41A.

Credit, 3 hours.

GREEK 42B. Aeschylus: Prometheus Vincetus, Agamemnon.

Credit, 3 hours.

GREEK 43B. Aristophanes: Birds and Menander: Selections. Fragments of Greek Comedy.

Credit, 3 hours.

GREEK 44B. Attic Orators: Selections illustrative of various "styles" and authors.

Credit, 3 hours.

GREEK 45B. Elegiac, Iambic and Lyric Poets: Selected poems and fragments. Prerequisite: Same as for 41A.

Credit, 2 hours.

GREEK 46B. New Testament: Catholic and Pastoral Epistles.

Credit, 2 hours.

GREEK 47B. Septuagint: Selections.

Credit, 2 hours.

GREEK 48B. New Testament: Selections.

Credit, 2 hours.

Undergraduates of marked proficiency may be admitted to courses 51 to 57. These courses will be conducted largely as seminars. Any one of them may be extended to two terms for more intensive work. Courses in such other fields as Greek Historiography, Romance, Dialectology, Papyrology, Byzantine Authors, Modern Greek, Historical Syntax, Comparative Philology including Phonology, Morphology, Etymology and Semasiology, may be substituted, if much preferred.

GREEK 51. Melic Poets: Selections. The principal fragments of the great lyric poets, Alcman, Alcaeus, Sappho, Anacreon, Simonides, Stesichorus, etc., with longer selections from Pindar and Bacchylides. Also a study of lyric metres. Prerequisite: Greek 42 or equivalent. Credit, 3 hours.

GREEK 52. Greek Drama: Selected Plays and Fragments. A study of the dramatic authors and their art. Credit, 3 hours.

GREEK 53. Greek Epigraphy and Palaeography. A number of inscriptions in different dialects and alphabets may be read from facsimile copies. Photographic reproductions of papyri and manuscripts will be used for the work in palaeography. Prerequisite: Greek 51 or 52. Credit, 3 hours.

GREEK 55. Greek Oratory: Demosthenes: De Corona and illustrative selections from other orators and from literary critics, especially Dionysius Halicarnasseus. Credit, 3 hours.

GREEK 56. Greek Philosophy. The fragments of pre-Socratic philosophy may be read in Ritter and Preller and selections from Aristotle's Nicomachean Ethics or Plato's Republic. Credit, 3 hours.

GREEK 57. Greek Literature. A survey of the literature from Homer to the Alexandrian Age, with illustrative readings in prose and verse. Credit, 3 hours.

### ARCHAEOLOGY

ARCHAEOLOGY 41A. Hellenic Archaeology. A study of the architecture, sculpture, terracottas, metal work, coins, engraved gems, vases, mosaics, etc., of ancient Hellas. Fowler and Wheeler: Greek Archaeology. Prerequisite: 90 hours of college work. Taught in 1920-21. Credit, 3 hours.

ARCHAEOLOGY 42A. Hellenic Archaeology. A continuation of 41A, together with a study of the topography, monuments and public antiquities of Athens as described by Pausanias. Fowler and Wheeler: Greek Archaeology. Frazier: Pausanias. Taught in 1920-21.

ARCHAEOLOGY 41B. Hellenic Private Life. A study of the private life of the Hellene from the cradle to the grave, including childhood, education, food, dress, marriage, condition of

women, house and furniture, amusements, religion, slaves, funeral and burial customs, etc. Prerequisite: 90 hours of college work. Taught in 1921-22. Credit, 3 hours.

ARCHAEOLOGY 42B. Hellenic Public Life. A study of the public life of the Hellene, including politics, government, revenues, finance, manufacture, industries, trusts, commerce, exports and imports, insurance, wages, prices, interest, army, navy, fortifications, town planning, public buildings, courts of justice, public charities, professions, urban and rural life, etc. Taught in 1921-22. Credit, 3 hours.

#### SANSKRIT AND INDO-EUROPEAN PHILOLOGY

The following courses will be given by the Greek department at any time that the demand may justify it, to those students of marked linguistic ability who desire them as a propaedeutic to teaching the Classics or for the cultural value to be derived from such extension of linguistic and literary knowledge. Courses 41-43 and 55-57 are of great value to any student intending to teach any language, even his own.

SANSKRIT 41-43. The Elements of Sanskrit. The essentials of the grammar and the reading in Devanagari of such texts as the Nala Episode from the Mahabharata, the Hitopadeca, the Katha-Sarit-Sagara, the Manava-Dharma-Castra, the Pancatantra, etc. Prerequisite: At least 2 years in each of 2 foreign languages, preferably Latin and Greek. Credit, 3 hours.

SANSKRIT 45-46. The Rig Veda and the Atharva Veda: Selected Hymns. The sacred literature of ancient India and the earliest monuments of Indo-European speech. Invaluable to the student of philology, comparative literature, comparative religion, folklore, etc. Credit, 3 hours.

SANSKRIT 47. Vedic Prose: Selections from the Catapatha Brahmana, Aitareya Brahmana, Chandogya Upanishad, Acvalayana Grihya Sutra, etc. Credit, 2 hours.

SANSKRIT 49. Sanskrit Drama: The Cakuntala of Kalidasa—the most admired work of “India’s Shakespeare.” Credit, 2 hours.

PALI 51-52. The essentials of Pali grammar and readings from the Dhammapada, Cullavagga, Petavatthu, Mahavagga, Jatakas, etc. Prerequisite: Sanskrit 45-46. Credit, 3 hours.

AVESTAN 51-52. The essentials of the grammar and readings from the Scriptures of Zarathushtra (Zoroaster), the Yasna, Yashts and Vendidad. Valuable for philology and comparative religion. Credit, 3 hours.

LITHUANIAN 51-52. The grammar and readings from the Lithuanian New Testament, the poems of Donalitus, the Dainos (folk-songs) and Pasukos (Maerchen). Valuable for philology, folk-lore, etc. Prerequisite: Sanskrit 41-43. Credit, 3 hours.

PHILOLOGY 55-57. Comparative Philology of the Indo-European Speech. The Indo-European vowels, consonants, morphology, suffixes, etc., illustrated from the whole range of Indo-European speech. This course will be accompanied by an account of the early Indo-Europeans, their civilization, etc., and a survey of the Indo-European languages. Prerequisite: Sanskrit 43.

Credit, 2 hours.

## DEPARTMENT OF MODERN LANGUAGES

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*Professor Caruthers*

*Professor Galland*

### GERMAN

Those students who offer German as a language for a degree must offer nine hours of German, beginning with German 15; the work of German 15 pre-supposes two years previous training in German. This necessary previous training is covered by German-2 units or German-1 unit and Courses 11, 12, 13.

GERMAN 11. Second year German, first term. German Grammar is thoroughly reviewed and a thorough drill is given in conversation and composition. Text-book: Pope's Writing and Speaking German. Prerequisite: German 1 unit.

Credit, 3 hours.

GERMAN 12. Second year German, second term: A continuation of German 11. Easy translation is added to the work in grammar, composition and conversation. "Hoeher als die Kirche" or equivalent.

Credit, 3 hours.

GERMAN 13. Second year German, third term: A continuation of German 12: "William Tell."

Credit, 3 hours.

GERMAN 15. Prose Composition. Composition and conversation are systematically practiced. Text-book: Bacon's Prose Composition.

Credit, 3 hours.

GERMAN 16. Survey of German Literature. Text-book: Priest's Survey of German Literature. German 15 is advised.

Credit, 3 hours.

GERMAN 17. Short story course.

Credit, 3 hours.

GERMAN 21A, 22A, 23A are taught 1920-21.



GERMAN 21A. Lessing's Life and Works. Reading of "Nathan Der Weise" and Minna von Barnhelm." Prerequisite: German 15 and 16. Credit, 3 hours.

GERMAN 22A. Conversation and advanced Prose Composition. Text-book: Osthaus and Biermann's Prose Composition, Part II. Credit, 3 hours.

GERMAN 23A. Heine. The later Romanticism and the life of Heine are studied. Text-book: Heine's Prose Works; Harz Reise." Credit, 3 hours.

GERMAN 21B, 22B, 23B are taught in 1919-20.

GERMAN 21B. Text-books: Schiller's "Jungfrau von Orleans," "Maria Stuart," and selected poems are translated in class. Thomas' Life of Schiller, and "Kabale und Liebe" or "Die Räuber" are assigned for outside reading. Prerequisite: German 15 and 16. Credit, 3 hours.

GERMAN 22B. Conversation and Advanced Prose Composition. Text-book: Pope's Advanced German Composition. Credit, 3 hours.

GERMAN 23B. Text-book: Schiller's "Wallenstein." Work on the Thirty Years' War is assigned for outside reading.. Credit, 3 hours.

GERMAN 31. Text-books: Goethe's "Hermann and Dorothea" and "Sesenheim" are translated in class; "Goetz von Berlichingen" and Sime's "Life of Goethe" are assigned for outside reading. Credit, 2 hours.

GERMAN 32. Goethe continued. "Egmont," "Iphigenie" and selected poems are translated. Credit, 2 hours.

GERMAN 33. Nineteenth Century Novel and Novelists. Credit, 2 hours.

GERMAN 41. Faust, Part 1. Prerequisite: German 23. Credit, 2 hours.

GERMAN 42. Advanced Prose Composition and Conversation, or Normal Course for teachers. Credit, 2 hours.

GERMAN 43. "Das Niebelungen Lied"; or, Nineteenth Century Drama. Credit, 2 hours.

**FRENCH**

Those students who offer French as a language for the degree must offer nine hours of French beginning with French 15; the work of French 15 requires two years' previous training in French. This previous training is covered by French-2 units or by Courses 11, 12, 13.

FRENCH 11. French Grammar: A course covering Part I of Fraser and Squair's Grammar with a study of irregular verbs or Cerf and Giese's Beginning French. Credit, 5 hours.

FRENCH 12. French Grammar: A continuation of French 11 with review of work already covered; sections from Part II of Fraser and Squair; translation and conversation based on "En France." Credit, 5 hours.

FRENCH 13. Continuation of composition and oral practice of the preceding courses; translation of Mairet's *La Tache du Petit Pierre*, or Daudet's *La Belle Nivernaise*, and Allen and Schoell's *First French Composition*, Part I. Credit, 5 hours.

FRENCH 15. French translation with work in grammar and conversation. Text-books: Halevy's *L'abbé Constantin*, and Allen and Schoell's *First French Composition*, Part II. Credit, 3 hours.

FRENCH 16. A course in composition and oral exercises. Text-books: Levi's *Prose Composition*; Voltaire's *Zadig*. Credit, 3 hours.

FRENCH 17. Translation of About's *Le Roi des Montagnes*; *La Petite Fadette* or Erckmann-Chatrain's *Madame Thérèse*. Credit, 3 hours.

FRENCH 21. Hugo's *Les Misérables*, with a study of Victor Hugo's life and works. Credit, 3 hours.

FRENCH 22. Survey of French Literature. An outline course treating of the main significant literary movements; lectures; class-room work; reading and reports. Credit, 3 hours.

FRENCH 23. Contemporary novel and short story. Anatole France; Pierre Loti, Bazin, Barré, etc.; class-room work; collateral reading and reports. Credit, 3 hours.

FRENCH 31. The Classical Drama. Corneille's Cid, Racine's Andromaque, Racine's Esther. Credit, 2 hours.

FRENCH 32. Modern Drama; lectures and assigned reading. Credit, 2 hours.

FRENCH 33A. Rapid reading of prose; advanced composition; conversation. Credit, 2 hours.

FRENCH 33B. Teachers' Course. A course open to those with a good reading knowledge of French, with emphasis on essential methods and principles. Credit, 2 hours.

### SPANISH

Those students who offer Spanish as a language for a degree must offer nine hours of Spanish beginning with Spanish 15; the work of Spanish 15 requires two years' previous training in Spanish. This previous training is covered by Spanish-2 units or Courses 11, 12, 13.

SPANISH 11. A first term course in essential elements of Spanish covering DeVitis' Grammar and selections from the "Spanish Reader" by Roessler and Remy. Credit, 5 hours.

SPANISH 12. A continuation of Spanish 11 with added work in idioms, construction and prose composition. Text-book: A Trip to South America. Credit, 5 hours.

SPANISH 13. A continuation of Spanish 12 with more advanced composition and translation; Cuentos Modernos. Credit, 5 hours.

SPANISH 15. Translation: Cuentos Castellanos; Valdes' Capitan Venano. Credit, 3 hours.

SPANISH 16. Spanish Commercial Correspondence. Translation, Altmirano's La Nivadad en las Montanas. Credit, 3 hours.

SPANISH 17. Cabellero's Un Servilon y Un Liberalito, Taboada's Cuentos Alegres. Credit, 3 hours.

SPANISH 21. Valdés's José. Alarcon's Novelas Cortas Escogidas. Credit, 3 hours.

SPANISH 22. Cervantes's Don Quijote. Credit, 3 hours.

SPANISH 23. Valdés's La Hermana San Sulpicio. Credit, 3 hours.

## DEPARTMENT OF SCIENCES AND MATHEMATICS

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*Chemistry: Professor Sieplein, Professor Hoyt*

*Physics: Professor Harmon, Professor Becker*

*Astronomy: Professor Harmon*

*Mechanical Drawing: Professor Harmon*

*Biology, Botany, Zoology, Geology: Professor Miller*

*Mathematics: Professor Ramsey, Professor Becker*

### CHEMISTRY

The course in General Chemistry (taught as Chemistry 11, 12, 13) is designed to give an understanding of the principles which have made modern chemistry possible and to form a groundwork for later studies in both inorganic and organic chemistry. The course deals with the facts of chemistry but emphasizes the relations of these facts to the fundamental theories, e. g. the kinetic molecular hypothesis; chemical equilibrium and the law of mass action; electrolytic dissociation as a guide to the chemistry of solutions, to the study of valence and of the processes of oxidation and reduction. Smith's and Moore's Calculations in Chemistry is used in the study of stoichiometric principles.

To meet the requirement in Chemistry, the candidate for the degree of Bachelor of Science must present courses 11, 12 and 13, or such other courses as are their equivalent. These other courses must include either course 15 or 24.

**CHEMISTRY 11.** The work deals with the laws of composition, the atomic and molecular hypotheses and an introduction to the study of chemical equilibrium. Text-books: McCoy and Terry's Introduction to General Chemistry, Chapters 1 to 14; Laboratory Manual, Chapters 1 to 9. Prerequisite: Chemistry-1 unit. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

*Professor Sieplein.*

CHEMISTRY 12. The study of chemical equilibrium is continued and developed into that of oxidation and reduction, of ionization and electrochemistry. Text-books: McCoy and Terry's Introduction to General Chemistry, Chapters 15 to 24; Laboratory Manual, Chapters 10 to 18. 3 recitations and 2 laboratory periods a week. Credit, 5 hours.

*Professor Sieplein.*

CHEMISTRY 13. The classwork consists of a brief sketch of organic chemistry together with a thorough study of solutions, the periodic system and the general principles of metallurgy. The laboratory work deals with the principles fundamental to the understanding of qualitative analysis. Text-books: McCoy and Terry's Introduction to General Chemistry, Chapters 25 to 33, and, Bray and Rosenstein's Manual of General Chemistry. 3 recitations and 2 laboratory periods a week. Credit, 5 hours.

*Professor Sieplein.*

CHEMISTRY 14. Qualitative Analysis, elementary course: The study of the various types of equilibria and the properties of the elements as a basis for qualitative schemes. Text-books: Morgan's Qualitative Analysis; Bailey and Cady's Qualitative Analysis. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

*Professor Hoyt.*

CHEMISTRY 15. Principles of Chemistry. A summer term course designed for those who have not had the opportunity of taking the work in Chemistry 11, 12, 13. It is a treatment of the principles and theories of modern chemistry: the atomic and molecular hypotheses, chemical equilibrium, and electrolytic dissociation. Text-books: Hildebrand's Principles of Chemistry, and Bray and Rosenstein's Manual of General Chemistry. Prerequisite: Chemistry, 1 unit and Chemistry 17A or Chemistry 14. 3 recitations and 2 laboratory periods a week. Credit, 4 hours.

*Professor Sieplein.*

CHEMISTRY 17A. Chemical Arithmetic: Practice in the calculations involved in general chemistry. This course must precede Chemistry 11 or in the case of students presenting Chemistry for entrance must be taken during the same term as Chem-

istry 11. Text-book: Hale's Calculations of Chemistry. 3 recitations.

Credit, 3 hours.

*Professor Hoyt.*

CHEMISTRY 18. An elementary course in Organic Chemistry designed, primarily, for those preparing for Medical Schools. The work deals very largely with the aliphatic compounds. Text-books: Cohen's Theoretical Organic Chemistry, and Cohen's Practical Organic Chemistry. Prerequisite: Chemistry 11, 12, 13. 6 recitations and 2 laboratory periods a week.

Credit, 7 hours.

*Professor Sieplein.*

Additional laboratory work can be arranged for those desiring it.

CHEMISTRY 21. Advanced Qualitative Analysis: The detection of the ions of metal and non-metals by solution methods, special attention being given to the psysico-chemical basis of the methods of separation and identification. The laboratory work includes the analysis of rocks, ores, alloys and commercial materials. Text-book: Noyes' Qualitative Chemical Analysis. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

*Professor Hoyt.*

CHEMISTRY 22. Elementary Quantative Analysis: The principles of quantative analysis from the standpoint of chemical equilibrium. Gravimetric, volumetric, electrolytic and absorption methods of representative character are studied as types. The laboratory work includes fifteen determinations on simple natural substances. Text-book: Mahin's Quantitative Analysis, Part I. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

*Professor Hoyt.*

CHEMISTRY 23. Advanced Quantitative Analysis: A study of practical methods for the determination of rocks, coal, coke, gas, oils, water, alloys, steel, cement and fertilizer. Those methods are chosen for practice which are in current use in the industrial laboratories of the section. Text-book: Mahin's Quantitative Analysis, Part II. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

*Professor Hoyt.*



CHEMISTRY 24. Qualitative Theories: A summer term course dealing with the theories of solutions which are essential to a complete understanding of chemical action and of qualitative analysis. Text-books: Stieglitz's Qualitative Analysis, Volumes I and II. Prerequisite: Chemistry, 1 unit, and Chemistry 17A or Chemistry 14. 3 recitations and 2 laboratory periods a week. Credit, 4 hours.

*Professor Sieplein.*

CHEMISTRY 25. History of Chemistry. The subject matter deals with the early developments of the science and places the main emphasis on the growth and use of the atomic and molecular hypotheses, of valence and of the periodic law with reference to inorganic chemistry. 2 recitations or lecture periods a week.

Credit, 2 hours.

*Professor Sieplein.*

CHEMISTRY 27. History of Chemistry. The subject is outlined in a broader way, especially in reference to the development of the modern theories of matter and their bearing on the interrelation of science and philosophy. 2 recitations or lecture periods a week.

Credit, 2 hours.

*Professor Sieplein.*

CHEMISTRY 31. Industrial Chemistry: A study of the construction and equipment of plants for the manufacture of chemical products. This includes the production of heavy chemicals, alkalies and borax, ceramic industries, paints and fertilizers. Trips are arranged to nearby cities where these processes may be seen in actual operation on a large scale. Text-book: Rogers' Elements of Industrial Chemistry. 3 recitations a week.

Credit, 3 hours.

*Professor Hoyt.*

CHEMISTRY 32. Industrial Chemistry. The production of artificial gas, the distillation of coal tar, the refining of petroleum, the extraction and purification of fats and oils, the manufacture of soap, dyes, paper, leather, textiles, explosives and varnish constitute the material of the course. At all times, the function of the laboratory in controlling the manufacturing process is emphasized. Text-book: Rogers' Elements of Industrial Chemistry. 3 recitations a week.

Credit, 3 hours.

*Professor Hoyt.*

CHEMISTRY 33. Industrial Chemistry. The metallurgy of iron and steel, the blast furnace, Bessemer, open hearth and electric processes are considered not only from the standpoint of reactions occurring in the furnace, but also with the heat balance in view. The heat treatment of steel and the metallographic demonstration of the iron-carbon alloys is treated at some length. Text-book: Stoughton's Metallurgy of Iron and Steel. 3 recitations a week. Credit, 3 hours.

*Professor Hoyt.*

CHEMISTRY 35. Chemistry of Foods. The chemistry of the digestive processes is studied and used as a basis for the understanding and application of modern dietary standards. Text-book: Sherman's Chemistry of Food and Nutrition. Prerequisite: Chemistry, 1 unit. 3 recitations a week.

Credit, 3 hours.

*Professor Sieplein.*

CHEMISTRY 36. Technology of Foods. The course deals with processes and practices of manufacture of foods. Text-book: Sherman's Food Products. Prerequisite: Chemistry, 1 unit. 3 recitations a week.

Credit, 3 hours.

*Professor Sieplein.*

CHEMISTRY 41. Organic Chemistry; Aliphatic Compounds: A study of general principles and a small number of the most important aliphatic compounds as a preliminary to more intensive work later. The laboratory work deals with the methods of purification, identification and analysis of organic compounds. Text-book: Holleman's Textbook of Organic Chemistry. Prerequisite: Chemistry 11, 12, 13. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

*Professor Sieplein.*

CHEMISTRY 42. Organic Chemistry; Aliphatic Compounds: A detailed study dealing with the alcohols, acids, sugars, compounds containing nitrogen and sulphur. The laboratory assignment is the preparation of fifteen compounds. Text-books: Holleman's Textbook of Organic Chemistry; Cohen's Practical Organic Chemistry. Prerequisite: Chemistry 41. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

*Professor Sieplein.*

CHEMISTRY 43. Organic Chemistry; Aromatic Compounds: A course similar to Chemistry 42 but dealing with cyclic compounds used as drugs and dyes. Text-books: Holleman's Text-book of Organic Chemistry; Cohen's Practical Organic Chemistry. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

*Professor Sieplein.*

As a portion of the laboratory work of Chemistry 41, 42, 43, the student is required to prepare two specimens in each course, of such quality and tested purity that they may be placed in the collection of museum specimens of organic compounds.

CHEMISTRY 45. Physical Chemistry: The molecular and atomic theories together with certain subatomic phenomena; the relation of the physical properties of gases, liquids and solids to chemical constitution. The laboratory work consists of spectroscopy and the determination of such constants as density, surface tension, viscosity and refractive index. Text-book: Getman's Outlines of Theoretical Chemistry. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

*Professor Hoyt.*

CHEMISTRY 46. Physical Chemistry: The properties of solutions and colloidal suspensions; thermochemistry; physical and chemical statics and kinetics. The laboratory work includes the preparation of colloids, the determination of molecular weight by freezing point, boiling point, and vapor pressure methods, heat of combustion by the bomb calorimeter, and studies in equilibrium. Text-book: Getman's Outlines of Theoretical Chemistry. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

*Professor Hoyt.*

CHEMISTRY 47. Physical Chemistry: The principles of theoretical electrochemistry. The laboratory work includes determinations of transport numbers and the conductivity of solutions as well as various measurements of electromotive force. Text-book: Getman's Outlines of Theoretical Chemistry. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

*Professor Hoyt.*

CHEMISTRY B. Elements of Metallurgy. The principles of metallurgy of the more important metals are studied. Especial stress is laid on the iron and steel processes and on the importance of metallography in modern industry. Text-book: Spring's Nontechnical Chats on Iron and Steel, supplemented by lectures and reference work on metallography and other metals. Prerequisite: Chemistry, 1 unit. 2 recitations a week.

Credit, 2 hours.

*Professor Sieplein.*

CHEMISTRY A. Elements of Industrial Chemistry: A study of the general industrial processes involving chemistry. Text-book: Benson's Industrial Chemistry. Prerequisite, Chemistry, 1 unit. 3 recitations a week.

Credit, 3 hours.

*Professor Sieplein.*

Chemistry B and Chemistry A may not be presented as meeting chemistry requirements for the degree of Bachelor of Science.

The candidates for the degree of Bachelor of Commercial Science who take chemistry as their freshman science should enroll in Chemistry B, Chemistry 36 and Chemistry A.

CHEMISTRY 1. Elementary Course in Chemistry: A study of important non metals together with the atomic theory. 3 recitations and 2 laboratory periods a week.

Credit, 3 hours.

*Professor Hoyt.*

CHEMISTRY 2. Elementary Course, second term. The metals are taken up in connection with the periodic law. Industrial processes utilizing chemistry are stressed. 3 recitations and 2 laboratory periods a week.

Credit, 3 hours.

*Professor Hoyt.*

CHEMISTRY 4. A general course dealing with the fundamental theories of chemistry. The non metals are first considered and then the metals. 5 recitations and 4 laboratory periods a week.

Credit, 6 hours.

*Professor Hoyt.*

## PHYSICS

PHYSICS 21A. Properties of matter and elementary theory of mechanics. Text-books: Kimball's College Physics; Conrad's

Laboratory Manual with the experiments amplified and supplemented. Prerequisite: Mathematics 11. 3 recitations and 1 laboratory period a week.. Credit, 4 hours.

PHYSICS 22A. Elementary theory of heat, magnetism and static electricity. 3 recitations and 1 laboratory period a week. Credit, 4 hours.

PHYSICS 23A. The elements of current electricity, sound and light. 3 recitations and 1 laboratory period a week. Credit, 4 hours.

PHYSICS 21B, 22B, 23B, are courses paralleling the above, designed for students who have not completed preparatory physics, or, those who need additional laboratory practice. This additional laboratory practice is necessary for those intending to meet the requirements for entrance to medical schools. The theory is presented with this requirement in mind. The same laboratory manual is used but 50 experiments are required for the complete course. Credit, 5 hours each term.

PHYSICS 21, 22, and 23 afford a general course in which a student becomes familiar with the elementary principles of the science and their applications. The subject matter is presented through the means of very fully illustrated experimental lectures in which the lantern is much used. The student is frequently referred to the departmental library. He is required to solve a large number of problems and write reports on his laboratory work. Two weeks of weather observation is included in the laboratory course.

PHYSICS 25, Physics 26, and Physics 27 constitute a course in Household Physics corresponding to the above in all essential respects, but with the special stress on the application of physics to the home. Text-book: Lynde's Physics of the Household. The course is arranged with 1 or 2 laboratory periods. 3 recitations a week. Credit, 4 or 5 hours.

PHYSICS 31. Elementary Mechanics and Heat; Mechanics of Solids. Text-book: Franklin and McNutt's Mechanics and Heat. Special and selected experiments from standard manuals for college physics. Prerequisite: Physics 23. 2 recitations and 1 laboratory period a week. Credit, 3 hours.



PHYSICS 32. A continuation of Physics 31; Mechanics of Fluids and Heat. 2 recitations and 1 laboratory period a week.  
Credit, 3 hours.

PHYSICS 33. Electricity and Magnetism. Text-book: Franklin and McNutt's Electricity and Magnetism. 2 recitations and 1 laboratory period a week.  
Credit, 3 hours.

PHYSICS 31, 32, 33 afford a more technical course than Physics 21, 22 and 23, and are an introduction to Theoretical and Practical Physics. The many problems used are of an especially practical nature and of greater difficulty than those of Physics 21, 22 and 23. Thirty laboratory experiments are required in the year's work. These are more thorough and of greater difficulty than those of the elementary course. They require the use of more accurate apparatus and demand greater skill of manipulation and observation. The reports cover the theory and the analysis of data in a thorough manner.

PHYSICS 41. Teachers' course in Physics. Text-book: Twiss: The Teaching of Science. Prerequisite: Physics 23. 2 recitations and 1 laboratory period a week.  
Credit, 3 hours.

PHYSICS 42. Continuation of Physics 41. 2 recitations and 1 laboratory period a week.  
Credit, 3 hours.

PHYSICS 43. Continuation of Physics 42. 2 recitations and 1 laboratory period a week.  
Credit, 3 hours.

PHYSICS 41, 42 and 43 are intended for those preparing to teach high school physics. The work consists of a discussion of the methods of teaching of courses, of text-books, of catalogues of supply houses, of the equipment of the laboratory, of care and construction of apparatus, of direction of the laboratory work and of giving experimental lectures before a class. In general the point of view taken is that of the teacher.

PHYSICS 47A. Radio-Telegraphy: A descriptive and practical course dealing further than in 23 and 33 with the principles of electrostatic and electromagnetic induction, and of the electron and electromagnetic wave theories. Laboratory work consists of the measurement of the various capacities and inductances of the receiving and sending apparatus, wave length of aërials, etc., the practice of the code, and of sending and receiving. Text-book:



Jansky's Principles of Radio-Telegraphy. Taught Summer Term, 1920, and Spring Term, 1921. 3 recitations and 2 laboratory and code practice periods a week. Credit, 4 hours.

PHYSICS 47B. Light and Sound: A course corresponding to Physics 31, 32 and 33, being of the same grade and character. Text-book: Franklin and McNutt's Light and Sound. Taught in the Spring Term, 1921. Prerequisite: Physics 23. 2 recitations and 1 laboratory period a week. Credit, 3 hours.

The following courses in Elementary Physics are offered:

PHYSICS 1. Elementary Physics, first term: Class lectures and recitations on the elements of mechanics and heat, with twenty laboratory experiments. Text-book: Mann and Twiss. 3 recitations and 2 laboratory periods a week. Credit, 3 hours.

PHYSICS 2. Elementary Physics, second term: A continuation of Physics 1: Lectures on electricity, magnetism, sound and light, with ten laboratory experiments. 3 recitations and 2 laboratory periods a week. Credit, 3 hours.

#### ASTRONOMY

ASTRONOMY 35. Astronomy: A short but intensive descriptive course, dealing with the systems of reference cycles, the earth as a heavenly body, the moon, the sun, planets, stars, and nebulae. Text-book: Young's Manual. Taught Fall and Summer terms. Credit, 3 hours.

ASTRONOMY 36. Meteorology: A brief study of the phenomena of the atmosphere, the weather map and weather forecasting. Text-book: Milham. Taught in the Winter term. Credit, 3 hours.

#### MECHANICAL DRAWING

The aim of the first year course is to become familiar with the various styles of lettering and to acquire skill in their formation, to become familiar with the drawing instruments and their use and to apply them in making geometrical drawings and projections used in the solution of the problems given in the course.

First term. Free hand drawing, lettering and geometrical drawing. Text-book: Thompson, Books 1 and 2. Credit, 5 hours.

Second term. Projection and perspective: advanced lettering.  
Text-book: Tracey. Credit, 5 hours.

Third term. Continuation of the second term work.  
Credit, 5 hours.

The intent of the second year work is to give the student such knowledge as will prepare him to pursue a course in engineering and such practice in drawing as will qualify him to do ordinary commercial work.

First term. Free hand sketching of machine parts, and scale drawing of the same. Credit, 5 hours.

Second term. Complete drawing of machines. Credit, 5 hours.

Third term. Elementary Machine Design. Credit, 5 hours.

Advanced work in machine design and mechanism is arranged to meet the needs of the student.

### BIOLOGY

The biological work as here outlined aims to deal with three classes of students. To those who desire general knowledge of biological subjects are recommended Courses 11, 12, 13, 16 and 17.

Those who are planning to enter medical schools should choose Courses 11, 16 and 17. These cover the standard requirements of the best schools.

Those who intend to teach Biology or to specialize in the science should, after the required Freshman preparation, elect from among Courses 19, 21, 22, 23, 26, 27A, 27B, 41 and 42.

BIOLOGY 11. General Biology: An introduction to the simpler forms of biological technique and to the fundamental structures and behaviors of organic nature. Plant and animal studies are so arranged as to guide the student to an understanding of the biological cell, and of its role in both simple and complex processes of individual development, body waste and repair, adaptation, reproduction and heredity. This course is a prerequisite of all succeeding courses in this department except Biology 15 and Geology 11. 3 recitations and 2 laboratory periods a week. Credit, 5 hours.

**BIOLOGY 26.** Evolution, Heredity, Eugenics. The early part of the course is concerned with creating an unbiased realization of the fact of evolution among all living things. This is followed by an analysis of the complex physical machinery of inheritance, its governing laws, and results which attend its behavior. Lastly an application of these laws is made to the modern fields of scientific plant and animal breeding, and finally to man himself. Prerequisite: Biology 11. 3 recitations a week.

Credit, 3 hours.

### **BOTANY**

**BIOLOGY 12.** General Botany: A general survey of the entire plant kingdom. Type forms from the great plant groups have been carefully selected for study. There are emphasized the natural history, structural characteristics, life cycle, and economic importance of groups which the chosen types represent. Prerequisite: Biology 11. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

**BIOLOGY 13.** Elementary Ecology: A course in the scientific observation and explanation of the more apparent characteristics of our commonest seed plants. Advantageous and adaptive structures and functions of the plant organs are studied, in addition to the interdependence of numerous forms and an ecological classification of plants. Prerequisite: Biology 11. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

**BIOLOGY 15.** Economic Botany: An elementary course whose interest is centered in the economic phases of garden, farm and timber crops. Emphasis is placed upon the uses and relative importance of principal crops and upon marketing facilities and other economic factors which affect supply and demand and consequent prices. 5 recitations a week.

Credit, 5 hours.

**BIOLOGY 19.** Elementary Bacteriology. Interest centers around the bacteriology of air, water, foods, soils and the industries. In addition to the foregoing, the course closes with a review of the most destructive disease-producing organisms, methods of infection and preventative measures. The work is sufficiently broad to be of value to all students and not alone to those leaning

toward medicine. Prerequisite: Biology 11. (Chemistry 11, 12, desirable antecedents.) 3 recitations and 2 laboratory periods a week. Credit, 5 hours.

BIOLOGY 21. Morphology of Thallophytes: A comparative study of the algae and fungi. Type forms of the principal orders are studied in detail, the aim being to develop an understanding of their genetic relationships and of the origin of specialized structures which appear fully developed in higher forms. Prerequisite: Biology 11 and 12. 2 recitations and 2 laboratory periods a week. Credit, 4 hours.

BIOLOGY 22. Morphology of Bryophytes and Pteridophytes: A course similar in nature and method to Biology 21, but dealing with the liverworts, mosses, ferns and fern allies. 2 recitations and 2 laboratory periods a week. Credit, 4 hours.

BIOLOGY 23. Morphology of Spermatophytes: A comparative study of the seed plants. Methods and aims are similar to those of Biology 21 and 22. 2 recitations and 2 laboratory periods a week. Credit, 4 hours.

BIOLOGY 27A. Plant Production. This course deals with the origin, distribution, culture and pathology of the important food and fiber crops of the United States. Principles of scientific plant breeding are discussed in their application to the development of new varieties for food purposes or for characters of resistance to drought and disease. Prerequisite: Biology 11 and 13. 3 recitations a week. Credit, 3 hours.

BIOLOGY 27B. Systematic Botany: The identification of ferns and flowering plants in the region of Grove City. The student is made familiar with the use of botany manuals and with the features which distinguish the principal groups of these two categories of plants. Work is confined almost exclusively to the field where an acquaintance can be made with living plants in their natural environments. 2 field periods a week. Credit, 2 hours.

BIOLOGY 41. Plant Microtechnique. Training is offered in the preparation of plant materials for laboratory study. Methods of collecting and preserving whole plants, and methods of preparing sections for microscopic examination are discussed and practiced. This is a valuable course for botany teachers and an

indispensible one for those who care to work further into plant histology. Prerequisite: Biology 11, 12, 13. Laboratory periods to be arranged. Credit, 2 hours.

### ZOOLOGY

BIOLOGY 16. General Invertebrate Zoology. Typical representatives from each of the most important phyla of the invertebrate animals are chosen for laboratory dissection and a comparative study. Emphasis is placed upon anatomy, physiology, life history and economic importance of the groups represented. Prerequisite: Biology 11. 3 recitations and 2 laboratory periods a week. Credit, 5 hours.

BIOLOGY 17. Comparative Anatomy of Vertebrates. Classes of the back-boned animals are represented in laboratory dissections by type forms. The aim is to develop an idea not only of the general features of vertebrate anatomy, but also of the genetic relationships of the groups as based upon anatomical characters. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

BIOLOGY 42. Animal Microtechnique. This course is similar in purpose and method to Biology 41, but involves work with animal instead of plant materials. This is an essential course for those who expect to carry their zoological training further into the fields of embryology or animal and human histology. Prerequisite: Biology 11, 16, 17. Laboratory periods to be arranged.

Credit, 2 hours.

### GEOLOGY

GEOLOGY 11. Economic Geology: Subject matter involves soils and mineral fertilizers, natural gas and petroleum, and mine and quarry products which are employed in the industries of our country. Emphasis is placed upon the geological origin and history of these materials, their geographical distribution, methods of securing and treating them, their present uses and the history and significance of their use to civilizations of the past. 5 recitations a week.

Credit, 5 hours.

### MATHEMATICS

MATHEMATICS 6. Solid Geometry. Text-book: Wentworth's Plane and Solid Geometry (Revised), Books 6 to 8. Five recitations. Credit, 3 hours.



**MATHEMATICS 11.** Plane Trigonometry. This course presupposes a good working knowledge of elementary algebra, intermediate algebra through quadratics, and plane geometry. Special emphasis is laid upon the solution of the right triangle, the solution of the oblique triangle, and the acquiring of facility in the use of logarithms. The aim of this course is to acquaint the student with the fundamental definitions, laws, and relations in plane trigonometry sufficiently, not only to enable him to solve problems in plane triangles with facility, but also to pursue more advanced courses successfully. Text-book: Rothrock's Plane and Spherical Trigonometry with tables, Chapters 1-8. Prerequisite: Algebra,  $1\frac{1}{2}$  units; Geometry, 1 unit. Credit, 4 hours.

**MATHEMATICS 12.** College Algebra, First Course. The prerequisites for this course are the same as for Mathematics 11. Fundamental notions and definitions are emphasized, some topics from intermediate algebra are reviewed and treated more critically, and an introduction is given to a few topics of more advanced work. The aim of this course is to train the student in more critical thinking, and to help him to gain an insight into and power to deal with quantitative relations in general. Text-book: Skinner, chapters 1-8. Prerequisite: Algebra,  $1\frac{1}{2}$  units; Geometry, 1 unit. Credit, 4 hours.

**MATHEMATICS 13.** College Algebra, Second Course. This course is a continuation of Mathematics 12 in matter, aim, and method. Among the topics studied are: complex numbers, theory of equations, infinite series, permutations and combinations, probability, and determinants of the fourth order. Text-book: Skinner. Credit, 4 hours.

**MATHEMATICS 21.** Analytic Geometry, First Course: An introduction to the analytic geometry of two dimensions which presupposes a good working knowledge of plane trigonometry and the first course in college algebra. The work includes a study of Cartesian co-ordinates, loci, the straight line, the circles, polar co-ordinates, and transformations of co-ordinates. Text-book: Ashton. Credit, 3 hours.

**MATHEMATICS 22.** Analytic Geometry, Second Course: A continuation of the work begun in the first course, including a study of conic sections, tangents and normals, diameters, poles and



polars, the general equation of the second degree, and higher plane curves. Text-book: Ashton. Credit, 3 hours.

MATHEMATICS 23. Advanced Trigonometry. The greater part of the term is devoted to a study of spherical trigonometry. The solution of right and oblique spherical triangles and their applications to navigation and astronomy are studied. A few advanced topics from plane trigonometry are treated in the latter part of the course. Text-book: Rothrock. Credit, 3 hours.

MATHEMATICS 25. Plane Surveying. The class work is supplemented by field work in which the practical phase of the work is emphasized. The field work for the course includes the measurement of vertical angles and horizontal angles, compass surveys of areas, transit survey of areas, relocation of lost corners, leveling for profile and grading for sewers. The class work will include the solution of problems from the data obtained, as well as extended problem work from the text. Text-book: Breed and Hosmer's Principles and Practice of Surveying, Vol. I. 2 recitations and 1 hour of field work. Credit, 3 hours.

MATHEMATICS 26. Advanced Surveying. This will include precise methods, laying out city lots, laying out railroad curves, railroad grading, street and public road surveying, and, at the latter part of the term, detailed work in topography by approximate and by stadia methods. Text-book: Breed and Hosmer's Principles and Practice of Surveying, Volumes I and II. 2 recitations and 2 hours of field work. Credit, 4 hours.

MATHEMATICS 32. Differential Calculus: An introductory course with applications of the fundamental principles to the solution of problems in geometry, maxima and minima, points of inflection and curve tracing. Expansion of functions and infinite series are also considered. Text-book: Granville's Elements of the Differential and Integral Calculus. Credit, 3 hours.

MATHEMATICS 33. Integral Calculus: An elementary course presupposing a good working knowledge of the elements of the differential calculus as given in Mathematics 32. The course includes applications of the principles of integration to the solution of simple problems in geometry, mechanics, and physics. Text-

book: Granville's Elements of the Differential and Integral Calculus. Credit, 3 hours.

In addition to the above collegiate courses in mathematics there will be offered, from time to time, when there is a sufficient demand for them, the following advanced courses, which may be arranged either as two or three hour courses:

MATHEMATICS 34. Calculus III: A continuation of the work in calculus including selected topics from both differential and integral calculus, with emphasis upon the application of the integral calculus. Text-book: Granville. Credit, 3 hours.

MATHEMATICS 37. Analytical Mechanics. Credit, 3 hours.

MATHEMATICS 39. History of Mathematics. Credit, 3 hours.

MATHEMATICS 41. Solid Analytics. Credit, 3 hours.

MATHEMATICS 42. Theory of Equations. Credit, 3 hours.

MATHEMATICS 44. Limits and Series. Credit, 3 hours.

MATHEMATICS 47. Differential Equations. Credit, 3 hours.

## DEPARTMENT OF COMMERCE

*Professor Walters, Miss Bell*

### ACCOUNTING

ACCOUNTING 11. Introductory Accounting. A study is made of the history of accounting, type of business organization, financial and profit and loss statements, the account, the philosophy of debit and credit, the books of accounting and business papers and business methods. Recitations, problems and practice work. 3 recitations a week. Credit, 3 hours.

ACCOUNTING 12. Continuation of Accounting 11. A study is made of methods of posting, trial balance, adjustment entries and corrections, classification of accounts and the partnership form of business. Recitations, problems and practice work. 3 recitations a week. Credit, 3 hours.

ACCOUNTING 13. Continuation of Accounting 12. A study is made of controlling accounts, single entry and double entry bookkeeping. Recitations, problems and practice work. 3 recitations a week. Credit, 3 hours.

ACCOUNTING 21. Corporation Accounting: A study of the corporation, the voucher system, factory costs, and general principles of valuation and depreciation. Recitations, problems and practice work. 3 recitations a week. Credit, 3 hours.

ACCOUNTING 22. Continuation of Accounting 21. A study is made of temporary and permanent investments, tangible and intangible assets, current and fixed liabilities, profits, reserves, dividends and sinking funds. Recitations, problems and practice work. 3 recitations a week. Credit, 3 hours.

ACCOUNTING 23. Continuation of Accounting 22. A study is made of the liquidation of a corporation, combinations and consolidations, branch house accounting, suspense accounts, adjustments, consolidated balance sheets and reports of receivers and trustees. 3 recitations a week. Credit, 3 hours.

**BUSINESS ADMINISTRATION**

**BUSINESS ADMINISTRATION 31.** Office Management: A study of the organization and standardization of the stenographic, accounting, credit, collection, sales, advertising and employment departments of a firm, and the control of personnel and production. Credit, 3 hours.

**BUSINESS ADMINISTRATION 32.** Office Management: A continuation of Business Administration 31. Credit, 3 hours.

**BUSINESS ADMINISTRATION 33.** Business Finance: A study of the capitalization of business, stocks, bonds, watered stock, mortgages, amortization, government regulation of corporation finances, syndicates, the stock exchange, liens and reorganization. Credit, 3 hours.

**BUSINESS ADMINISTRATION 41.** Labor Problems: A study of the evolution and character of present-day problems of labor—labor legislation, wages, hours of work, unemployment, strikes, labor unions, arbitration, profit sharing plans, welfare work, etc. Same as Economics 34. Credit, 3 hours.

**BUSINESS ADMINISTRATION 42.** Commercial Law: The law of contracts, negotiable paper, agency, partnerships, sales of personal property, corporations, real estate and insurance. Credit, 3 hours.

**BUSINESS ADMINISTRATION 43.** Psychology of Business: A study of the principles of psychology as applied to business management, buying, selling, advertising and control of employees. Credit, 3 hours.

**BUSINESS ADMINISTRATION 45.** Business Statistics: A study is made of modern business and fact analysis, how to recognize and secure facts, classification and tabulation of facts and the presentation of facts graphically. Text-book, collateral reading and practice work. 3 recitations a week. Credit, 3 hours.

**BUSINESS ADMINISTRATION 46.** Credit: A study of the history and theory of credit, credit instruments, kinds of credit, collections, credit legislation, sources of credit information and the work of the credit department. 3 recitations a week. Credit, 3 hours.

**COMMERCE**

COMMERCE 13. History of Commerce: An historical study of the economic, commercial and industrial development of the ancient nations, the Italian Republics, the Hanseatic League, Holland, the modern European nations, the United States and Latin America, with special emphasis on the Industrial Revolution and its effects. 3 recitations a week. Credit, 3 hours.

COMMERCE 21. Advertising: This course will present the fundamental principles of advertising and show its relation to business as a whole. It includes a study of advertising copy, rates, campaigns, media, trade marks and trade names, etc. 3 recitations a week. Credit, 3 hours.

COMMERCE 22. Salesmanship: This course will deal with the principles of personal salesmanship. Although salesmanship is rapidly becoming a science, the importance of personality and of good common sense in selling will not be overlooked. 3 recitations a week. Credit, 3 hours.

COMMERCE 23. Commercial Correspondence: A study of the various types of letters used in business, form, style, and the underlying principles affecting them. Work will be given in letters ordering goods, and asking payment of bills, letters of inquiry, sales letters, routine letters, announcements, letters of recommendation and application, form letters and follow-up letters. 3 recitations a week. Credit, 3 hours.

COMMERCE 25. Economic Geography: A study of materials of commerce, agricultural, mineral and manufactured, including the processes involved, the importance of by-products, the transportation of goods and the localization of industry. 3 recitations a week. Credit, 3 hours.

COMMERCE 26. Natural Resources of the United States and their Conservation: A study is made of the available supplies, the waste and the conservation of mineral fuels, metallic resources, water, forests, land and man himself. 3 recitations a week. Credit, 3 hours.

COMMERCE 27. Principles of Transportation: A study is made of the origin and growth of the railway, the railway company and the railway mechanism, freight, passenger, express and

mail service, capitalization, earnings and government regulation of railways, the electrical railway, ocean transportation and the merchant marine, inland waterways, good roads and motor truck service. Text-book and collateral reading. 3 recitations a week.

Credit, 3 hours.

COMMERCE 31. Principles of Foreign Trade: A study of demand and supply in the foreign market, principles of international distribution, commercial policies of foreign powers, machinery of foreign trade, the foreign trade organization and trade regulations. Text-book and collateral reading. 3 recitations a week.

Credit, 3 hours.

COMMERCE 41. Trade with Latin America: A study of the trade problems of Latin America, methods and agents of securing trade, financial conditions in Latin America, the American Consular Service, correspondence, catalogues and advertising, packing and marketing goods, and steamship facilities. Text-book and collateral reading with a study of government reports. 3 recitations a week.

Credit, 3 hours.

#### COMMERCIAL EDUCATION

COMMERCIAL EDUCATION 11. Methods in Commercial Education: The best methods of presenting courses in book-keeping, shorthand, typewriting, commercial geography, commercial law, commercial correspondence, arithmetic, commercial history and elementary economics. (Taught only in the Summer Session.)

Credit, 3 hours.

COMMERCIAL EDUCATION 12. The Commercial High School and its Problems: The relation of the commercial high school to the business community, the academic high school and the college, the preparation of the commercial teacher, the equipment of the commercial department, supervision of commercial work by state and nation and courses of study. (Taught only in the Summer Session.)

Credit, 3 hours.

COMMERCIAL EDUCATION 13. Methods of teaching Shorthand and Typewriting: A thorough study with practice periods in teaching shorthand and typewriting, Pitmanic systems. (Taught only in the Summer Session.)

Credit, 3 hours.



**STENOGRAPHY**

STENOGRAPHY 11. The principles of shorthand up to and including the N and F hooks, word signs and simple dictation.

Credit, 5 hours.

STENOGRAPHY 12. The principles of shorthand from the N and F hooks up to and including the Doubling Principle, review of all word signs and taking of simple dictation.

Credit, 5 hours.

STENOGRAPHY 13. The principles of shorthand from the Doubling Principle to end of text-book, review of all of word signs, taking of simple dictation and emphasizing of phrasing.

Credit, 5 hours.

STENOGRAPHY 21. A review of the principles of shorthand; daily dictation of simple letters and articles; drill on English and shorthand vocabulary; reading of forty pages of printed shorthand. Speed of eighty-five words in one minute is required.

Credit, 5 hours.

STENOGRAPHY 22. Dictation of letters, newspaper and magazine articles, speeches and law work; drill on English and shorthand vocabulary; reading of fifty pages of printed shorthand. Speed of one hundred words in one minute is required.

Credit, 5 hours.

STENOGRAPHY 23. Dictation of letters, newspaper and magazine articles, speeches, legal work and specifications; drill on English and shorthand vocabulary; reading of seventy-five pages of printed shorthand. Speed of five hundred words in five minutes is required.

Credit, 5 hours.

**TYPEWRITING**

TYPEWRITING 11. Beginning Typewriting: The learning of the key-board by the touch method; simple dictation; practice on words and sentences. (No credit given unless taken in connection with Stenography.) Five recitations a week.

Credit, 2 hours.

TYPEWRITING 12. Continuation of Typewriting 11; writing of words, sentences and letters; study of the mechanism of the typewriter. (No credit given unless taken in connection with Stenography.) Five recitations a week.

Credit, 2 hours.

TYPEWRITING 13. Continuation of Typewriting 12; writing of letters and legal forms; complete mastery of the key-board required; tabulating. (No credit given unless taken in connection with Stenography.) Five recitations a week.

Credit, 2 hours.

TYPEWRITING 21. Speed practice; writing of words and sentences, but with the object of speed rather than mastery of the key-board; dictation; transcription of shorthand notes. Speed of thirty words a minute required for a period of ten minutes. (No credit given unless taken in connection with Stenography.) Five recitations a week.

Credit, 2 hours.

TYPEWRITING 22. Speed practice; speed sentences and articles; dictation and transcription of shorthand notes. Speed of forty words a minute required for a period of fifteen minutes. (No credit given unless taken in connection with Stenography.) Five recitations a week.

Credit, 2 hours.

TYPEWRITING 23. Speed practice; speed sentences and articles; dictation and transcription of shorthand notes; office practice. Speed of fifty words a minute required for a period of twenty minutes. (No credit given unless taken in connection with Stenography.) Five recitations a week.

Credit, 2 hours.

### SECRETARIAL

SECRETARIAL 1. Business Arithmetic: This course will include a study of the more important phases of arithmetic as related to business. It will include a review of the principles and applications of percentage, with emphasis on interest, discount, bank discount and commission. The study of accounts from the arithmetical point of view, of partnership settlements, bills, monthly statements and pay roll work is taken up. Rapid calculation is emphasized throughout the course. (This course is required in the Secretarial Course and may be required in the Course in Commerce where lack of preparation is shown.)

SECRETARIAL 2. Penmanship: The principles and practice of muscular movement writing. (This course is required in the Secretarial Course and may be required in the Course in Commerce where lack of preparation is shown.)

SECRETARIAL 3. Spelling: The study of 2,500 business and technical words, their spelling, meaning and use. (This course is required in the Secretarial Course and may be required in the Course in Commerce where lack of preparation is shown.)

SECRETARIAL 21. Office Practice: A study of office methods, handling of mail, use of telephone, filing, duplicating, and general routine work. Recitations and practice. (No credit if taken in connection with Typewriting 23.)

Credit as separate course in the Summer Sessions, 2 hours.

## DEPARTMENT OF ATHLETICS AND PHYSICAL TRAINING

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*Director: Robert E. Thorn*

*Medical Adviser: Dr. B. A. Montgomery*

*Instructor for Women: Miss Evelyn Pew Lockhart*

All forms of athletics at the college are under the direct supervision of the athletic director and medical adviser. The coach, who is a regular member of the faculty, accompanies the teams on all trips away from the college.

By this arrangement the college aims not only to foster and encourage athletics by providing a coach of wide athletic experience, but also to safeguard the health and mind of the students by placing them under the instruction and care of a competent and responsible official of the college. Systematic physical training according to sound physical hygienic principles is offered to all, although a general participation in outdoor and indoor athletics is encouraged. Students are permitted to remain on the athletic teams only so long as athletics do not interfere with the pursuit of their studies. The rules governing inter-collegiate contests apply to all athletic teams. The forms of athletics in which the college participates are foot-ball, basket-ball, base-ball, track and tennis. The control of athletics is in the hands of an Athletic Committee appointed from the Faculty by the President. The direct management is by a student manager working under a joint committee of seven; two members from the Faculty, two members from the Alumni and three members from the Student Body.

### ATHLETICS FOR WOMEN

The opportunity for physical development is too often confined to men. Grove City College believes that it is equally important that physical training be provided for young women and for that reason requires that all young women take some regular course in

physical culture. The work is in charge of Miss Lockhart, who has spent three years in special preparation for this work. Various forms of exercise may be elected; such as tennis, basketball, swimming, field hockey, folk dancing, or gymnastics. The gymnasium, which is entirely modern and fully equipped, has added much to the physical training of the young ladies, not only in extent, but also in pleasantness. The building is given over completely to the ladies for four full afternoons each week. In the past, gymnasium exhibitions have been held in which the development of the students has clearly shown the advantages of physical instruction.

## GROVE CITY CONSERVATORY OF MUSIC

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HERMANN POEHLMANN, *Mus. D.*

*Director and Professor of Piano and Vocal, and Supervisor of the  
Piano and Vocal Teachers' Seminar*

GUSTAV MEHNER

*Professor of Pipe Organ, Piano, Composition, Harmony,  
Forms*

JENNIE HASKELL GLENN

*Instructor in Piano, History, Elements of Music,  
Music Dictation*

ESTHER REYNOLDS

*Violin and Viola*

HAZEL McKINNEY

*Intermediate Department*

The Grove City Conservatory of Music is affiliated with Grove City College. It is under the directorship of Doctor Hermann Poehlmann, formerly professor in the Royal Conservatory, Dresden, Saxony. The courses of study provided are recognized by all capable of judging as the most approved of music schools generally. The high standard maintained in both instrumental and vocal music has brought the department into high repute among educated musicians. It has long been our ambition to afford facilities for instruction in music equal to those found in the larger Eastern schools. We confidently affirm that so far as the matter of instruction is concerned students have as good advantages for a musical education in Grove City College as in the very best conservatories of music.

### ADMISSION AND CLASSIFICATION

All the various subjects in the Music Conservatory, including Voice, Piano, Violin, Harmony, Counterpoint, Composition, etc., are taught from the first step up to the special coaching of artists.



Each applicant must pass an examination in order to be placed in the proper grade. Students may enter at any time, though it is desirable, especially for the *regular course students*, that they *should begin in the fall term*. All beginners are expected to take, besides their principal study, Elements of Music.

All students who are taking full course in Music will be required to have at least freshman collegiate standing.

## BACHELOR OF MUSIC

The College has felt the need of a Music Course which would combine a certain amount of literary work with the music and would lead to a baccalaureate degree. The course outlined below offers an excellent musical education and also gives a thorough training in literary courses necessary for the well educated person.

The entrance requirements for this course are completion of a regular four year high school course or its equivalent.

Prospective music teachers may use their elective privilege by taking courses in the Department of Education and thus qualify for the College Provisional Certificate upon graduation.

### Plan of the Course for the Degree of Bachelor of Music Piano as the Major Study

#### FRESHMAN YEAR

| FIRST TERM                       |      | SECOND TERM                      |      |
|----------------------------------|------|----------------------------------|------|
|                                  | Hrs. |                                  | Hrs. |
| English 11 .....                 | 2    | English 12 .....                 | 2    |
| Oratory 11 (2 recitations) ..... | 1    | Oratory 12 (2 recitations) ..... | 1    |
| History 21 .....                 | 3    | History 22 .....                 | 3    |
| Piano (2 lessons) .....          | 4    | Piano (2 lessons) .....          | 4    |
| Elements of Music .....          | 2    | Harmony .....                    | 2    |
| History of Music .....           | 1    | History of Music .....           | 1    |
| Recitals                         |      | Recitals                         |      |
| Dictate 2 periods                |      | Dictate 2 periods                |      |
| Chorus 1 period                  |      | Chorus 1 period                  |      |
| Schubert 1 period                |      | Schubert 1 period                |      |
| Choir 1 period                   |      | Choir 1 period                   |      |
| Physical Training .....          | 1    | Physical Training .....          | 1    |

#### THIRD TERM

|                                  | Hrs. |
|----------------------------------|------|
| English 13 .....                 | 2    |
| Oratory 13 (2 recitations) ..... | 1    |
| History 23 .....                 | 3    |
| Piano (2 lessons) .....          | 4    |
| Harmony .....                    | 2    |
| History of Music .....           | 1    |
| Recitals                         |      |
| Dictate 2 periods                |      |
| Chorus 1 period                  |      |
| Schubert 1 period                |      |
| Choir 1 period                   |      |
| Physical Training .....          | 1    |

## SOPHOMORE YEAR

| FIRST TERM              |      | SECOND TERM             |      |
|-------------------------|------|-------------------------|------|
|                         | Hrs. |                         | Hrs. |
| English 31 .....        | 3    | English 32 .....        | 3    |
| Modern Language .....   | 3    | Modern Language .....   | 3    |
| Piano (2 lessons) ..... | 4    | Piano (2 lessons) ..... | 4    |
| Harmony .....           | 2    | Harmony .....           | 2    |
| History of Music .....  | 1    | History of Music .....  | 1    |
| Forms .....             | 2    | Forms .....             | 2    |
| Duets .....             | 1    | Duets .....             | 1    |
| Recitals                |      | Recitals                |      |
| Dictate 2 periods       |      | Dictate 2 periods       |      |
| Chorus 1 period         |      | Chorus 1 period         |      |
| Schubert 1 period       |      | Schubert 1 period       |      |
| Choir 1 period          |      | Choir 1 period          |      |
| Physical Training ..... | 1    | Physical Training ..... | 1    |

## THIRD TERM

|                         | Hrs. |
|-------------------------|------|
| English 33 .....        | 3    |
| Modern Language .....   | 3    |
| Piano (2 lessons) ..... | 4    |
| Harmony .....           | 2    |
| History of Music .....  | 1    |
| Forms .....             | 2    |
| Duets .....             | 1    |
| Recitals                |      |
| Dictate 2 periods       |      |
| Chorus 1 period         |      |
| Schubert 1 period       |      |
| Choir 1 period          |      |
| Physical Training ..... | 1    |

## JUNIOR YEAR

| FIRST TERM               |      | SECOND TERM              |      |
|--------------------------|------|--------------------------|------|
|                          | Hrs. |                          | Hrs. |
| Modern Language .....    | 3    | Modern Language .....    | 3    |
| Psychology 31 .....      | 3    | Psychology 32 .....      | 3    |
| Piano (2 lessons) .....  | 4    | Piano (2 lessons) .....  | 4    |
| Harmony .....            | 2    | History of Music .....   | 1    |
| History of Music .....   | 1    | Counterpoint .....       | 2    |
| Counterpoint .....       | 2    | Duets .....              | 1    |
| Duets .....              | 1    | Recitals                 |      |
| Recitals                 |      | (Same as Freshman Year.) |      |
| (Same as Freshman Year.) |      | Elective Music .....     | 2    |
| Elective Music .....     | 2    | Physical Training .....  | 1    |
| Physical Training .....  | 1    |                          |      |

## THIRD TERM

|                          | Hrs. |
|--------------------------|------|
| Modern Language .....    | 3    |
| Bible .....              | 3    |
| Piano (2 lessons) .....  | 4    |
| History of Music .....   | 1    |
| Counterpoint .....       | 2    |
| Duets .....              | 1    |
| Recitals                 |      |
| (Same as Freshman Year.) |      |
| Elective Music .....     | 2    |
| Physical Training .....  | 1    |

## SENIOR YEAR

| FIRST TERM              |      | SECOND TERM             |      |
|-------------------------|------|-------------------------|------|
|                         | Hrs. |                         | Hrs. |
| Bible .....             | 3    | Bible .....             | 3    |
| Literary Elective ..... | 6    | Literary Elective ..... | 6    |
| Piano (2 lessons) ..... | 4    | Piano (2 lessons) ..... | 4    |
| History of Music .....  | 1    | History of Music .....  | 1    |
| Composition .....       | 2    | Composition .....       | 2    |
| Duets .....             | 1    | Duets .....             | 1    |
| Recitals                |      | Recitals                |      |
| (Same as Freshman Year) |      | (Same as Freshman Year) |      |
| Elective Music .....    | 2    | Elective Music .....    | 2    |
| Physical Training ..... | 1    | Physical Training ..... | 1    |

## THIRD TERM

|                                      | Hrs. |
|--------------------------------------|------|
| Bible .....                          | 3    |
| Literary Elective .....              | 6    |
| Piano (2 lessons) .....              | 4    |
| History of Music .....               | 1    |
| Composition .....                    | 2    |
| Duets .....                          | 1    |
| Recitals<br>(Same as Freshman Year.) |      |
| Elective Music .....                 | 2    |
| Physical Training .....              | 1    |

The following changes in the plan above are made when some Major beside Piano is chosen:

Organ Major: Freshman Year is the same as for Piano Major.  
 Violin Major: Freshman Year has Violin (2 lessons) in place of History.  
 Vocal Major: Freshman Year has Vocal (2 lessons) in place of History.  
 Organ Major, Violin Major or Vocal Major: In the Sophomore, Junior and Senior Years, the Organ, Violin or Vocal Major (2 lessons) is substituted for one lesson in Piano.

## MUSIC ELECTIVES

For prospective teachers of Piano, the Music Elective of the Junior year is Teachers Instruction; of the Senior year is Teachers' Instruction and Teaching.

For prospective teachers in the Public Schools, the Music Elective of the Junior and Senior years is Chorus and Conducting.

For the prospective "Music Artist," the Music Elective of the Junior and Senior years is further work in the major subject.

## TUITION

The tuition for the Bachelor of Music Course is sixty-five dollars (\$65) per term when Piano is the major subject and seventy-five dollars (\$75) per term when the major subject is Organ, Violin or Voice.

Practice periods are additional to the tuition and are at the rate of one dollar and fifty cents (\$1.50) a period per term.

## THREE YEAR COURSE IN MUSIC

In addition to the course leading to the degree of Bachelor of Music, a Three Year Course in Music is offered. Students in this course must attend three years in succession in order to receive the diploma.

Diplomas or certificates are given after the successful completion of any one of the courses prescribed in the various de-

partments. They are conferred on those only who complete a full course and have attended the department at least three years. Those who have attained the Teachers' Diploma in Piano, Voice, Theory or Pedagogy, are then prepared to do advanced work and may secure diplomas in courses of study which will prepare them for independent development as pianists, violinists or vocal soloists.

Diplomas or certificates will be given:

A. For ability as teacher of piano, to students of the Piano-Seminar who have shown remarkable aptness in teaching, who have had for one year, at least a class in theoretical piano instruction, one year supervised instruction (giving of instruction to children, under care of the Director), have reached studies by Cramer, and have had at least two years' work in History and two years' work in Harmony and Forms of Music. According to the higher or lower ability in piano playing, different degrees are given, such as, for teaching beginning grade, for teaching lower and advanced middle grades, and for teaching lower and advanced higher grades.

In order to receive a certificate for ability as teacher of piano (a) beginning grade, the student must have finished two books from Cramer (Germer); Jensen, op. 32, book 1; Heller, Vol. II; Czerny, portions of Vols. II and III; Bach, Preludes; Mendelssohn's Songs without words, partly; easier pieces from Schubert, Weber, Schumann, and at least one or two sonatas by Haydn, Mozart, Beethoven.

b. Low middle grade: Three books from Cramer; Jensen, op. 32, books 1 and 2; Heller, Vols. II and III; Czerny, Vols. II and III; Bach, some French suites or two-voice inventions; pieces like the above and some modern composers.

c. Advanced middle grade: Four books from Cramer; Jensen, op. 32, books 1, 2 and 3; Heller, Vol. IV; Czerny, Vols. II and III; Bach. Harder pieces from Mendelssohn, Schubert, Weber, Schumann, and other modern composers.

d. Low advanced grade: Cramer; Clementi: Gradus ad Parnassum; Jensen, op. 32; Heller, Vol. IV and Czerny, Vols. II and III; Bach. More difficult pieces from preludes; pieces from classical, romantic and modern masters.

B. Fitness for independent development as a pianist, to such piano players as have reached the Seventh Grade in the Piano Course, have studied Counterpoint one year, and have shown such a thorough grasp of the subject that their future development may, without risk, be left to themselves.

C. For distinguished ability as a pianist, to such piano players as have reached the Eighth Grade of the Piano Course, have completed the work in Counterpoint, and have arrived at a high degree of proficiency in execution.

D. For ability as a teacher of vocal music, to students of the Voice-Seminar who have shown especial aptness in training the voice, have reached the Sixth Grade in Voice Culture, and have had two years' work in Music Theory and one year in Piano.

E. Fitness for independent development as concert singer, to students of voice culture, who have reached the Seventh Grade of the Voice Culture, the Fourth Grade in the Piano Course, have had two years' work in Music Theory, and have arrived at such a degree of proficiency in the use of the voice and such understanding of vocal principles and methods that their future development may, without risk, be left to themselves.

F. For ability as church soloist, to students of voice culture who have finished the Sixth Grade of the vocal course, Third Grade in Piano and have had two years' work in Music Theory.

This diploma is granted to members of the literary department who have taken music as additional work.

G. For distinguished ability as concert and oratorio singer, to students of voice culture who have finished the Seventh Grade of the Voice Course, and have reached the Fourth Grade of the Piano Course, have had two years' work in Music Theory, and have acquitted themselves with high credit before the public.

H. For ability as opera singer, to students of voice culture whose voices have been developed in the technique necessary for opera singing and have attained such a degree of proficiency that the artistic rendering of the most difficult dramatic passages is satisfactorily accomplished, and who have particularly attained accuracy in ensemble and have given evidence of unusual dramatic power.

I. For ability as teacher of violin, to students of the Violin Seminar who have reached the Fourth Grade in the Violin Course, the Third Grade in the Piano Course, and have two years' work in Music Theory.

K. Fitness for independent development as violinist, to such as have finished the Fourth Grade in the Violin Course, have reached the Fourth Grade in the Piano Course, and have had two years' work in Music Theory.

L. For ability as solo or concert violinist.

M. For ability as teacher of Music Theory, to students of Music Theory who have attained extensive knowledge of Harmony, and have shown special aptness in all their studies in the theory of music and have reached the Sixth Grade in the Piano Course.

Certificates of Dismissal are given after one year's attendance to such as take a single study in any one course.

Diplomas of distinction will be awarded as an acknowledgement of superior talent, eminent application and marked faithfulness to only such as have completed a full course.

As most of the students will teach later, special care is taken to train pupils for the profession of teaching Piano, Voice and Harmony. The course provided along these lines is the most complete that can be given.

#### JUNIOR WORK

A student is entitled to enter the Junior Class in Piano if he has reached the Fifth Grade,—having studied thoroughly at least the following Etudes: Doering, op. 44, books 1 and 2, op. 8, books 1 and 2; Czerny, Vol. I, (Germer), Vol. II, 1 part; Heller, Vols. I and II; Germer, op. 35; Bach, Preludes; Bertini, op. 29 and 32; Bach, two-voice inventions.

A student is entitled to enter the Junior Class in Vocal if he has reached the Third Grade in Piano, the Sixth Grade in Vocal, and is ready to begin Harmony instruction.

#### RECITATIONS

At least two recitations are required weekly in all the leading studies of any course. In Harmony the students recite daily in all beginning classes; in the advanced classes they receive three les-



sons and two lessons weekly, according to their advancement. Classes in Teachers' Instruction and in Forms recite twice a week. In Music Dictation, beginning classes recite daily, advanced classes three and two times a week. Chorus, Ensemble and Music History recite once or twice a week.

Special attention is called to the fact that almost twice as much instruction is given for the tuition paid as at any other college or music school. It has been found especially beneficial for beginners to recite at least three times a week in such leading subjects as Piano, Voice, Harmony, etc. We confidently believe that this departure is very much to the advantage of the students of the Music Department.

### THE ORCHESTRA

A fine orchestra is maintained by the Music Department under the direction of Dr. Poehlmann. New students wishing to join this orchestra for the instruction they will receive in various instruments are admitted on a term fee of \$5. After one year's membership no fee is charged.

### MODEL STUDENTS

A limited number of boys and girls will be received into the Music Department as model students for teachers in Piano, Violin, and Voice who are receiving supervised instruction in teaching. Those who receive this instruction will be charged \$3 a term for two lessons each week. Application should be made to the Director, before the opening of the session, by all those desiring places.

### REGULATIONS CONCERNING STUDENTS

Music students are not allowed to take private lessons from any music teacher who is not connected with the College, nor to take part in performances of any kind without permission of the Director.

Each student is required to pay for sheet music used in the course; chorus and duet books are furnished by the conservatory.

Each beginning student is required to take at least one year's lessons from Professor Mehner or Miss Glenn. If sufficient progress has been made, the student is recommended to Dr. Poehlmann for enrollment in his classes.

At the end of each term, grades are given in all courses of that term; students are graded on application, progress, and talent. The grade values are: A, very good; B, good; C, fair; D, poor; E, very poor.

Students, who for two successive terms are graded "D" in talent in a major subject are not eligible to continue the course leading to graduation.

Holidays, determined by the Faculty of the College, are observed by the Conservatory of Music. Lessons set for such days are not made up at other times.

Students who come from nearby towns for lessons in the various departments are required to pay full tuition and are given one hour lessons each week instead of two half hour lessons as regularly given to the students of the Conservatory of Music.

Each student is required to take a course of at least three years.

Some students may be, under certain conditions, excused from a subject.

Those who enter in the winter term must complete the year's work during the summer term.

No new class in Teachers' Instruction will be formed in the spring.

The course during the summer term is primarily for special work only and for those regular course students who have work to make up.

Students who are here for only the summer term may have instruction in all branches.

The general regulations as to the care, comfort and conduct of students in the Literary Department are binding upon the students of the Conservatory of Music. These regulations include the residence of all students not from Grove City in the dormitories at the College, their attendance upon all the religious exercises, including the daily and Sunday chapel services, and their co-operation in all interests which make for the maintenance of a good moral and Christian atmosphere.

#### **THE COLLEGE**

The work of the College Department does not prove a hindrance to the interests of the Conservatory of Music, but

rather a help. The enthusiasm and earnest purpose of the large number of men and women in the College serve as a stimulus. Indeed, the two departments are mutually stimulating, and many parents prefer to have their daughters take their work in Music under influences of this kind. The same interest and care which are exercised over the students of the College are manifested in the management of the Conservatory of Music.

Students of the Conservatory of Music are permitted to take studies in the Literary Department, by the payment of three dollars (\$3.00) extra a term for each credit hour in college subjects. No reduction is made when students of the Conservatory of Music take up Art, Commercial Branches or Stenography and Typewriting.

### COURSES OF STUDY

#### PIANO—Piano.

Elements of Music.  
Harmony.  
Musical Forms and  
Analysis.  
Counterpoint.  
Music History.  
Ensemble.  
Chorus.  
Music Dictation.  
Psychology.

#### VIOLIN—Violin.

Piano.  
Elements of Music.  
Harmony.  
Counterpoint.  
History.  
Musical Forms (Lectures).  
Ensemble.  
Chorus.  
Psychology.  
Music Dictation.

#### PIANO-SEMINAR—Piano.

Theory of Piano Instruction,  
(Lectures), two years.  
Supervised Piano Instruction,  
one year.  
Elements of Music.  
Harmony.  
Counterpoint.  
Composition.  
Musical Forms (Lectures).  
Ensemble.  
Chorus.  
Music Dictation.  
Psychology.

#### VOICE—Voice.

Piano.  
Elements of Music.  
Harmony.  
Musical Forms (Lectures).  
Music History.  
Ensemble.  
Declamation.  
French, German and Italian.  
Music Dictation and Chorus.  
Psychology.

#### MUSIC THEORY—Elements of

Music.  
Harmony.  
Counterpoint.  
Musical Forms.  
Composition.  
Piano.  
Music History.  
Chorus.  
Music Dictation.

#### VOICE-SEMINAR—Voice.

Theory of Voice Culture.  
Supervised Voice Culture In-  
struction, one year.  
Elements of Music.  
Harmony.  
Piano.  
Counterpoint.  
Musical Forms (Lectures).  
Ensemble.  
Chorus.  
Declamation.  
Music Dictation.  
Psychology.

**VOICE (OPERA)—Voice.**

Interpretation of Opera.  
 Dramatic Rendition.  
 Elements of Music.  
 Harmony.  
 French and German.  
 Musical Forms (Lectures).  
 Music History.  
 Ensemble.  
 Chorus.  
 Music Dictation.  
 Psychology.

**VIOLIN-SEMINAR—Violin.**

Supervised Violin Instruction.  
 Piano.  
 Elements of Music.  
 Harmony.  
 Counterpoint.  
 Musical Forms (Lectures).  
 Music History.  
 Ensemble.  
 Chorus.  
 Music Dictation.  
 Psychology.

## PLANS OF THE COURSES

### PIANO COURSE

Piano playing has always been regarded as a function of the fingers, and training of the finger muscles for independence and quality has been the foundation for all technical practice. But within recent years a new principle has been sought by various theorists. Almost simultaneously all found themselves involved in the same problem—relaxation, its value and application. Among others, two great works, the books of Breithaupt and of Steinhausen, were published. Both discerned in the great pianist the free and natural movement of the arm as the source of technic and referred this idea to its physiological sources. Breithaupt, the discoverer of most of the actions, has systematized them in their three aspects—physical, psychological and aesthetic. The problems of relaxation and weight are solved in his works and become the basis of a far-reaching system.

Breithaupt says: "The art of piano-playing is not striking, hammering and thrusting, but an art of sensitive, nervous fingertips, velvet hands, and soft, round, complete movements of an elastic playing organism and finally the expression of that ever immeasurable and indeterminate tone-ideal, that lives half perceived, half unperceived in the mind."

This wonderful method of weight-technic which all players of sonorous tone, such as Busoni, Paderewsky, Risterchi have used more or less unconsciously, is used in the work of the Conservatory.

## FIRST YEAR

|                           |   |
|---------------------------|---|
| First Term (Fall).....    | Piano.<br>Elements of Music.<br>Dictate, Chorus, History. |
| Second Term (Winter)..... | Piano.<br>Harmony.<br>Dictate, Chorus, History.           |
| Third Term (Spring).....  | The same.   |

## JUNIOR YEAR

|                   |   |
|-------------------|---|
| First Term .....  | Piano.<br>Psychology.<br>Harmony.<br>Forms.<br>Teachers' Instruction.<br>Dictate, Chorus, History, Duets. |
| Second Term ..... | The Same.   |
| Third Term .....  | The Same.   |

## SENIOR YEAR

|                   |  |
|-------------------|--|
| First Term .....  | Piano.<br>Harmony.<br>Forms.<br>Teaching, Teachers' Instruction.<br>Dictate, Chorus, History, Duets. |
| Second Term ..... | Piano.<br>Counterpoint, Forms.<br>Teaching, Teachers' Instruction.<br>Chorus, History.               |
| Third Term .....  | The same.  |

## VOCAL COURSE

## FIRST YEAR

|                           |   |
|---------------------------|---|
| First Term (Fall).....    | Piano.<br>Elements of Music.<br>Dictate, Chorus, History, Elocution.          |
| Second Term (Winter)..... | Harmony, Piano.<br>Dictate, Chorus, History, Elocution.<br>German or Italian. |
| Third Term (Spring).....  | The same.   |

## JUNIOR YEAR

|                   |  |
|-------------------|--|
| First Term .....  | Piano.<br>Psychology.<br>Harmony, Teachers' Instruction.<br>Dictate, Chorus, History.<br>Elocution, German, (French or Italian). |
| Second Term ..... | The same. Duets.   |
| Third Term .....  | The same.  |

## SENIOR YEAR

|                   |   |
|-------------------|---|
| First Term .....  | Harmony, Teaching, Forms.<br>Dictate, Chorus, History, German or French. Duets. |
| Second Term ..... | Counterpoint, Teaching, Forms.<br>Chorus, History, Duets.                       |
| Third Term .....  | The same.   |

## VIOLIN COURSE

### FIRST YEAR

|                           |  |
|---------------------------|--|
| First Term (Fall).....    | Elements of Music, Piano.<br>Dictate, Chorus, History. |
| Second Term (Winter)..... | Harmony, Piano.<br>Dictate, Chorus, History.           |
| Third Term (Spring).....  | The same.  |

### SECOND YEAR

|                   |  |
|-------------------|--|
| First Term .....  | Harmony, Dictate, Chorus, History,<br>Orchestra. |
| Second Term ..... | The same.  |
| Third Term .....  | The same.  |

### THIRD YEAR

|                   |   |
|-------------------|---|
| First Term .....  | Harmony, Teaching, Forms, Dic-<br>tate, Chorus, History, Orchestra. |
| Second Term ..... | The same.   |
| Third Term .....  | The same.   |

## PIANO DEPARTMENT

### Pieces and Studies

#### BEGINNING GRADE

#### STUDIES

##### GRADE 1—

Technical Exercises (Vetter).  
Tappert.  
Doering, op. 44, book 1.  
Koehler, op. 151.  
Doering, op. 76, book 1.  
Doering, op. 45, book 1.

##### GRADE 2—

Doering, op. 44, book 2.  
Doering, op. 45, book 2.  
Doering, op. 76, books 2 and 3.  
Germer, op. 36, books 1 and 2.  
Loeschorn, op. 65, books 1 and 2.  
Gurlitt, ou. 82.

##### GRADE 3—

Doering, op. 8, book 1; op. 23,  
book 1.  
Doering, op. 166, books 1 and 3.  
Czerny, op. 299. (Germer), books  
1 and 2, or Behrens, op. 68.  
Germer, op. 37, books 1 and 3.  
Heller (Germer).  
Germer, op. 35, books 1 and 2,  
(Polyphony).  
Bach, preludes.

#### PIECES

##### GRADE 1—

Little Folks' Songs, Germer, op. 32.  
Reinecke, op. 54, Krause; op. 25.  
Lichner, "Little Leaves and Flow-  
ers."  
Gurlitt, "Album Leaves for the  
Young."  
Schumann, op. 68, No. 1-6.  
Reinecke, op. 107, book 1.

##### GRADE 2—

Sonatinenalbum, by Germer.  
Matthews' Introduction.  
Reinecke, op. 107, book 2; op. 47,  
No. 1.  
Rieman, op. 48.  
Kullak, op. 61 and 82.  
Wilm, op. 81, book 1.

##### GRADE 3—

Mozart and Haydn Sonatas, easy  
selections.  
Beethoven var., easy selections.  
Mozart, Rondo, D.  
Mozart, var., E.  
Hummel, op. 122, op. 55.  
Schumann, op. 68.  
Beethoven, op. 49, op. 51.



## GRADE 4—

Huentn, op. 30, op. 80.  
 Doering, op. 8, book 2.  
 Czerny, op. 299, book 3.  
 Bertini, op. 29 and 32.  
 Heller or Schytte, op. 106.  
 Bach Inventions (two voices).  
 Czerny, op. 834, op. 93 (toccata).

## GRADE 4—

Mendelssohn Songs (Germer).  
 Mendelssohn, op. 72.  
 Clementi Sonatas, op. 26, 39 and 24.  
 Moscheles, op. 18.  
 Field, nocturnes.  
 Gade, op. 19, books 1 and 2.  
 Heller, op. 138.  
 Schubert, Landler, allegretto C  
 Minor, two Scherzi.

## MIDDLE GRADE

## GRADE 5—

Cramer, book 1 (Germer).  
 Behrens, op. 61, books 3 and 4.  
 Czerny, op. 299, book 4.  
 Czerny, op. 740.  
 Loeschorn, op. 67, book 1.  
 Heller, op. 16.  
 Jensen, op. 32, books 1 and 2.  
 Haberber, op. 53.  
 Bach, Suiten French.  
 Doering, op. 33, book 2, op. 30.  
 Doering, op. 24, 25, octaves.  
 Doering, op. 46, double notes.

## GRADE 5—

Beethoven, Bagat, op. 119.  
 Beethoven, op. 33.  
 Beethoven, op. 126.  
 Mozart, Haydn, Clementi, Sonatas.  
 Mendelssohn Songs.  
 Raff, op. 75; Jensen, op. 17.  
 Schumann, op. 124, op. 99, op. 68.  
 Schubert, op. 94, op. 90.  
 Grieg, op. 14, op. 30, op. 6, op. 12.  
 Kirchner, op. 7, op. 9, op. 2.  
 Rubenstein, Nevin, Ravina.  
 Henselt, Weber, Moscheles.

## GRADE 6—

Cramer, books 2 and 3.  
 Czerny, 740.  
 Czerny, op. 337, 40 daily studies.  
 Clementi, Gradus and Parnassum,  
 Germer.  
 Jensen, op. 32, book 3.  
 Doering, op. 33, book 3.  
 Bach, inventions (3 voices).  
 Bach, Suiten English.  
 Bach, well-tempered clavichord.  
 Czerny, op. 335.  
 Kullak, octave studies.

## GRADE 6—

Beethoven Sonatas.  
 Mozart, Haydn, Weber, Clementi.  
 Schubert Sonatas.  
 Schumann, op. 15, 82, 28.  
 Chopin, op. 28, preludes.  
 Chopin, nocturnes.  
 Chopin, mazurkas.  
 Chopin, waltzes.  
 Jensen, op. 43, 44, op. 2.  
 Heller, op. 92, 83.  
 Gade, op. 34, 36, 41.  
 Mendelssohn, op. 5, 7, 15, 16, 18, 33.

## HIGHER GRADE

## GRADE 7—

Tausig, daily studies.  
 Clementi, Gradus.  
 Bach, Concerta in Italian style.  
 Bach, well-tempered clavichord.  
 Chopin, preludes, op. 28.  
 Heller, op. 81.  
 Moscheles, op. 80 and op. 43.  
 Mueller, Capricen, op. 31, 34,  
 47, 29.

## GRADE 7—

Weber, selected compositions.  
 Brahms, op. 10 and op. 27.  
 Beethoven, variations.  
 Raff, op. 91.  
 Rubenstein, op. 51.  
 Scharwenka, op. 8.  
 Saint-Saens, op. 23.  
 Concertos, by Hummel, Dussek,  
 Field, Mozart, Weber and  
 Beethoven.

## GRADE 8—

Czerny, op. 365. Virtuoso School.  
 Henselt, op. 2, 5 and 13.  
 Clementi, Gradus.

## GRADE 8—

Beethoven, Later Sonatas.  
 Brahms, op. 1, 2 and 5.  
 Chopin, op. 37, 22, 53, etc.

Bach, fugues.  
 Moscheles, op. 95 and 51.  
 Schumann, op. 3, 10 and 13.  
 Chopin, op. 10, 25 and 28.  
 Rubenstein, op. 23 and 81.  
 Saint-Saens, op. 52.  
 Liszt, Etudes, Transcendentals.

Schumann, op. 6, 9, 17 and 10.  
 Mendelssohn, op. 54.  
 Moskowski, op. 14.  
 Scharwenka, op. 6.  
 Schubert, op. 53, 78, 143.  
 Concertos, by Beethoven, Schubert,  
 Handel, Schumann, Bach, Chopin,  
 Brahms, Liszt, etc.

## VIOLIN DEPARTMENT

### GRADE 1

Wohlfahrt, op. 38.  
 Laoureux, Practical Method,  
 Book 1.  
 Federlein, Foundation Studies.  
 Hermann, op. 20, book 1.  
 Blumenstengel, Scale and Arpeg-  
 gio Studies, book 1.  
 Sevcik, op. 1, book 1.  
 Sevcik, op. 7, book 1.  
 Hohman Method, books 1 and 2.  
 Kayser, op. 20, book 1.  
 Sitt, op. 32, book 1.  
 Wohlfahrt, op. 45, book 1.  
 Alard, op. 10, book 1.

Dancla, op. 123, 187.  
 Pleyel, op. 8.  
 Gebauer, op. 10.  
 Weiss, op. 38.  
 Hauptmann, op. 10.  
 Huber, op. 8.  
 Alard, op. 39.  
 Wolfermann, op. 3.  
 Saenger, op. 127, 128.

### GRADE 2

Blumenstengel Scale and Arpeg-  
 gio Studies, book 2.  
 Sevcik, op. 7, book 2.  
 Laoureux Method, book 2.  
 Wohlfahrt, op. 45, book 2.  
 Sitt, op. 32, books 2 and 3.  
 Alard, op. 10, book 2.  
 Hermann, op. 20, book 2.  
 Sevcik, op. 6, books 6 and 7.  
 Sitt, op. 32, book 5.  
 Dont, op. 38.

Mazas, op. 38.  
 Dancla, op. 187, 129.  
 Beriot, Air Varié No. 14.  
 Bohm, op. 378, 380.  
 Hofmann, Sonatinas.  
 Hollaender, op. 3, 20, 62.  
 Kriens, Suite.  
 Bach, Sarabande and Loure.  
 Schmidt, op. 41.

### GRADE 3

Laoureux Method, book 2.  
 Schradieck Scale Studies.  
 Schradieck Technical School,  
 book 1.  
 Sitt, op. 32, books 2 and 3.  
 Kayser, op. 20, book 3.  
 Dont, op. 37.  
 Laoureux Method, book 3.  
 Mazas, op. 36, book 1.

Pleyel, op. 24.  
 Dancla, op. 109.  
 Dvorak, op. 100.  
 Beriot, op. 5.  
 Heitsch, op. 4, Romance.  
 Ries, Gondoliera from Suite 3.  
 Old Dance Forms—Bach, Handel,  
 Beethoven, Mozart.

### GRADE 4

Schradieck Scale Studies.  
 Schradieck Technical Exercises.  
 Sevcik, op. 8 and 9.  
 Mazas, op. 36, book 2.  
 Kreutzer, 42 Etudes.  
 Casorti, op. 50.

Beriot, op. 57.  
 Schubert, 137.  
 Raff, op. 85.  
 Svendsen, op. 26.  
 Grieg, op. 46.  
 Brahms, Hungarian Dances.

## GRADE 5

Sevcik, op. 1, book. 4.  
 Fiorillo, 36 Studies.  
 Mazas, op. 36, book 3.  
 Rode, 24 Caprices.  
 Rovelli, 12 Caprices.  
 Gavines, 24 Studies.  
 Wieniawski, op. 18, Etudes-  
 Caprices.  
 Paganini, 24 Caprices.  
 Hullweck, Orchestra Studies.

Bach, 6 Sonatas.  
 Beethoven, op. 40 and 50.  
 Handel, Sonatas.  
 David, Concert Studies.  
 Wieniawski, op. 17.  
 Vieuxtemps, op. 38.  
 Concertos—Beriot, Rode, Viotti,  
 Kreutzer, Mozart, Mendels-  
 sohn, Bruch.

## ORGAN DEPARTMENT

The demand from many quarters for pipe organ instruction, and especially by those who are qualifying to become church organists has led to the installing of a very fine pipe organ in the Music Department. The organ is of the latest design, pneumatic action throughout, and is especially adapted to the work of instruction.

Herr Gustav Mehner is splendidly equipped to train pipe organists. He was four years under some of the most noted organists of Europe and is a musician and artist of the highest standing.

The regular fee for instruction is \$45 for a term of three months.

A fee of \$5 per term is charged for practice periods of one hour per day. A special auditorium is set aside for this work, so that considering the expense of heating and lighting and the necessary expense of an electric motor for working the bellows, the fee for this branch is very reasonable.

The student should not commence the study of this instrument until a good practical knowledge of the piano has been obtained. As the organ is principally used in connection with the church service, special attention will be given to the art of service accompaniment. Instruction in the mechanism of the pipe organ will be given to all organ students.

GRADE 1—Merkel Organ School, Part 1. Manual playing in two, three, four parts.

GRADE 2—Merkel Organ School, Part 2. The natural pedalling; regular alternating of both feet.

Artificial Pedalling; the use of point and heel of the same foot.

Easy pieces by Batiste, Dolmetch, Flagler, Lemaigre, Mrkel and others.

Sight Reading; easy hymn tunes with the pedals.

- GRADE 3—Nilson Pedal Studies.  
 Merkel, Parts 3 and 4. Various pieces for study and church use.  
 Selected Pieces by Rheinberger, Dubois and others.  
 Sight Reading; Hymn tunes in more difficult style.
- GRADE 4—Nilson Pedal Studies, continued.  
 Schneider—Forty-four studies. (Manuals and Pedals continued.)  
 Bach—Eight short Preludes and Fugues.  
 Some of his Chorals.  
 Rheinberger—Meditations.  
 Other pieces by Guilmant, Mailing, La Toutbelle and others.
- GRADE 5—Pedal Studies by Nilson and Schneider to be completed.  
 Bach—Preludes and Fugues of medium difficulty.  
 Mendelssohn—Preludes and Sonatas. (Nos. 2 and 5.)  
 Rheinberger—Sonata. (A Minor.)  
 Selected pieces by Guilmant, Widor, C. Frank and others.
- GRADE 6—Selected studies suitable for the grade.  
 Mendelssohn—Sonatas. (1, 3, 4, 6.)  
 Bach—Toccatas, Preludes and Fugues.  
 Merkel—Sonatas.  
 Schumann—Fugues.  
 Rheinberger—Sonatas, (C Major and others), and Concertos.  
 Widor—Symphonies.  
 Guilmant—Sonatas.  
 Liszt—Prelude and Fugue on the name: Bach.  
 Reger—Prelude and Fugues. Trios. Sonata, (F sharp Minor).  
 Other pieces selected for concert use.

Diplomas will be given as follows: (a) For ability as church organist to such organ students as have reached the Fifth Grade in the Organ course, have completed the work in Harmony, have shown sufficient knowledge in transposition and improvisation, are acquainted with the mechanism of the organ. (b) For ability as solo organist to such organ students as have completed the Sixth Grade in the Organ Course, have shown sufficient knowledge in Theory of Music and are acquainted with the mechanism of the organ.

## VOCAL DEPARTMENT

Our vocal instruction is based on the so-called pure Italian method. Therefore the fundamental principles of vocal art, such as breathing, position of larynx, tongue and mouth—in short, all functions of the tone-producing and tone-strengthening organs—will receive the most careful and patient attention. The result will be a normal, well placed, easy flowing, resonant and beautiful tone. This is the most important and most difficult

part of voice culture. While the Italian method, which treats the voice as a beautiful instrument only, forms the necessary basis of the vocalism, it is absolutely inadequate for the proper rendition of modern music. This demands a perfect treatment of all vowels, consonants, words, phrases and sentences, of all modulations, of emotions and sentiments as indicated by the underlying poem, of which the music is but a higher expression. Therefore, the vocal art requires the most patient and faithful study, and pupils must ever bear in mind that while "Art is long and time is fleeting," vocal art is the longest, the deepest, the most difficult, as it is the most beautiful of the arts.

### VOCAL COURSE OF STUDY

- GRADE 1—J. Smith's Method: Posture, Breathing, Exercises 14 to 17; Tone-Production, Part I, Exercises 29-35.
- GRADE 2—J. Smith: Tone-Production, Part II; Exercises 36-39.
- GRADE 3—J. Smith: Tone-Production, Part III; Exercises 40-60.  
Tone-Production, Part IV; Secondary Vowels.  
Tone-Production, Part I; Diphthongs or Compound vowels.
- GRADE 4—J. Smith: Articulation, Exercises 67-72.  
Pronunciation, Exercises 73-77. Intervals. The Easiest Solfeggi.
- GRADE 5—J. Smith: Exercise 78 for the extension of the compass; scales; Sostenuito Exercises. Easy Solfeggi; Easy English Songs.
- GRADE 6—J. Smith: Arpeggio; Embellishments; Coloratur Exercises; Medium Solfeggi and Songs by Mendelssohn, Schubert, Schumann.
- GRADE 7—Continuation of preceding exercises; advanced Solfeggi; songs in Italian, German and French Languages.
- GRADE 8—Oratorio Study.
- GRADE 9—Opera Study.

# "Stradella"

*Romantic Comic Opera in Three Acts by F. P. Flowtow*

*Given by the*

*MUSIC DEPARTMENT OF GROVE CITY COLLEGE*

*Under the Direction of Dr. Hermann Poehlmann*

*THURSDAY EVENING, APRIL 13, 1920*

## CAST

STRADELLA, a celebrated church singer (Tenor).....Mr. William Gilson

LEONORE (Soprano).....Misses Beatrice Hoover and Miriam Slough

BARBARINO { Bandits } .....(Tenor) Mr. LeRoy Black, Mr. William Purvis

MALVOLIO { .....(Baritone) Mr. Frank Poehlmann

BASSI, guardian of Leonore.....(Bass) Mr. Gordon Hill

CHORUS: Pupils of Stradella, Masqueraders, Italian Peasants, Pilgrims.

DANCERS: Misses Deborah Thompson, Hazel Montgomery, Elizabeth Hosick, Mary Hosick, Lucy Battista.

## MEMBERS OF CHORUS

Margaret Jackson

Esther Younggren

Clarence Hough

Lee McCandless

Florence Detrick

Dorothy Smith

Albert Barber

T. J. Robinson

Howard Wiley

Mary Emery

Ilse Poehlmann

Harold Daugherty

John Albin

## MEMBERS OF ORCHESTRA

### FIRST VIOLIN

Esther Reynolds

Sylvia Boots

Isabel Coleman

### SECOND VIOLIN

Florence Coulter

Alberta Donaldson

### CELLO

Monroe Bassett

### BASS

Homer Gibson

### CLARINET

Ralph Williams

### CORNET

Joseph Dobie

Wilbur Thompson

### HORN

C. A. Black

### TROMBONE

Samuel Gibson

Gerald Hogue



# Open Recital

Given by the  
INTERMEDIATE AND MODEL DEPARTMENTS  
of the Music Department of Grove City College

## TEACHERS

VIOLIN: Miss Ruth Pettis

PIANO: Misses H. McKinney, Olive Moon, Gertrude Burns

CARNEGIE HALL, MONDAY, MAY 31, 1920

at seven-thirty o'clock

## PROGRAM

|  |              |
|--|--------------|
| Duet for Piano and Violin.....               | C. Dancia    |
| M. AND C. CLEELAND                           |              |
| (a) Ding Dong Bell.....                      | G. Spalding  |
| (b) Just a Bunch of Flowers.....             | G. Spalding  |
| M. STUCK                                     |              |
| Kindergarten March.....                      | H. Engelman  |
| V. SMITH                                     |              |
| Violin Solo: Musical Reflections, No. 7..... | H. Schroeder |
| A. ROSS                                      |              |
| Vocal Duet: Clapping Song                    |              |
| M. STUCK AND R. CLEELAND                     |              |
| Out for a Day's Sport.....                   | H. Engelman  |
| L. WINSBERG                                  |              |
| Grace and Beauty.....                        | G. Spalding  |
| K. SMITH                                     |              |
| Piano Duet: "Evening".....                   | K. Low       |
| K. SMITH AND K. DUNN                         |              |
| Recitation: "The Fingers that Failed."       |              |
| R. CLEELAND                                  |              |
| Gypsy Dance.....                             | H. Engelman  |
| Ethel-Polka .....                            | F. Bebr      |
| O. DOW                                       |              |
| Blue Bell—Polka.....                         | T. Rickaberg |
| M. CLEELAND                                  |              |
| Vocal Duet: No, Sir!                         |              |
| C. CLEELAND AND R. MCCOY                     |              |
| Dreams .....                                 | L. Panella   |
| C. SIEPLEIN                                  |              |
| Piano Duet: Gitana.....                      | C. Heins     |
| L. TEMPLE AND M. SISLEY                      |              |
| Mountain Echoes.....                         | M. Bebr      |
| R. MCCOY                                     |              |
| Violin Solo: Cavatina.....                   | O. Schmidt   |
| C. CLEELAND                                  |              |
| Evening Chimes.....                          | C. Heins     |
| L. TEMPLE                                    |              |
| Flower Song.....                             | G. Lange     |
| D. ALLEN                                     |              |
| Piano Duet: On the Stage.....                | H. Engelman  |
| R. MCCOY AND O. DOW                          |              |
| Choruses: The Brownies' Good-bye.            |              |

# Open Recital

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*Given by the*

*SCHUBERT CLUB*

*MUSIC HALL, MONDAY, MARCH 22, 1920*

*at eight o'clock*

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## PROGRAM

Duet for Violins: Divertissement Op. 55, No. 2.....*Wohlfahrt*  
MISS RUTH PETTIS AND MR. CARL MASTER

Sonata for Violin and Piano: II Mov. Adagio.....*Mendelssohn*  
MISSSES ESTHER REYNOLDS AND OLIVE MOON

Vocal Trio: "On Thee Each Living Soul Awaits, from  
The Creation.....*Haydn*  
MISS BEATRICE HOOVER, MR. WILLIAM GILSON, MR. HERMANN POEHLMANN

Piano Solo: In the Evening Soaring.....*Schumann*  
MISS GERTRUDE BURNS

Violin Solo: Romance .....*Becker*  
MISS ISABELLE EAKIN

Piano Solo: Nocturno, Op. 9, No. 2.....*Chopin*  
MISS OLIVE MOON

Vocal Solo: Carmena  
MISS BEATRICE HOOVER

Sonata for Violin and Piano: I Mov.....*Grieg*  
MISSSES ESTHER REYNOLDS AND GERTRUDE BURNS

Tenor Solo: Aria: "How Sweetly Gentle Day"  
(From the Opera "Stradella").....*Flotow*  
MR. WILLIAM GILSON

Piano Solo: Ronda Brilliant, Op. 62.....*Weber*  
MR. AARON GROSS

# Concert

COMPLIMENTARY TO THE SUMMER SCHOOL

CARNEGIE HALL, FRIDAY, JULY 30, 1920

## PROGRAM

March Heroic for Orchestra and Piano, Eight Hands.....*Saint-Saens*  
*Piano:* MISSES GLENN, MOON, POEHLMANN AND MR. GROSS

Aria for Tenor: "How Sweetly Gentle Day"  
 (From the Opera "Stradella").....*Flotow*  
 MR. GILSON

Capriccio Brilliant. Op. 22 for Piano Solo and Orchestra.....*Mendelssohn*  
 MR. GROSS

Concertante for two Solo—Violins and Orchestra.....*Dancla*  
 MISSES REYNOLDS, BOOTS

Valse Lento } From the Ballet: Sylvia.....*Delibes*  
 Pizzacato Polka }

Vocal Soli:

Romanza ..... *Ponchiello*

A Spirit Flower.....*Tipton*

The Magic of Your Eyes.....*Penn*

To a Messenger.....*LaForge*

MISS POEHLMANN

"Southern Roses"—Waltz..... *Strauss*

# Commencement Program

*Given by the*

*MUSIC GRADUATES OF GROVE CITY COLLEGE*

*Assisted by the Home Orchestra*

*Under the Direction of Dr. H. Poehlmann*

*CARNEGIE HALL, MONDAY, JUNE 14, 1920*

*at eight o'clock*

## PROGRAM

- Overture ..... *Mebner*
- Concerto for Piano and Orchestra, Op. 31.....*Godard*  
     III. Mov. Andante quasi Adagio.  
     I. Mov. Andante-Allegro vivace.  
         MISS OLIVE MOON
- Aria for Soprano: Robert, My Beloved (From the Opera  
     Robert le Diable) .....*Meyerbeer*  
         MISS BEATRICE HOOVER
- Violin Solo: Concertino Op. 6, No. 2.....*Huber*  
         MISS RUTH PETTIS
- Torch-Dance from the Opera: The Hugenots.....*Meyerbeer*  
     (For Piano, four hands)  
         MISSSES OLIVE MOON, GERTRUDE BURNS
- Recitative and Aria: No! I Can Bear My Fate No Longer (From  
     the Opera: Der Freischuetz)..... *Weber*  
         MR. WILLIAM GILSON
- Trio: Where? What? Oh Terror !  
     MISSSES BEATRICE HOOVER, MIRIAM SLOUGH AND MR. WILLIAM GILSON
- Concerto for Piano and Orchestra Op. 11.....*Weber*  
     II. Mov. Adagio.  
     I. Mov. Allegro.  
         MISS GERTRUDE BURNS

## RATES OF TUITION PER TERM OF TWELVE WEEKS

## Private Lessons

## VOCAL

*Instruction given by Dr. Poehlmann*

|  |         |
|--|---------|
| One term's instruction (two half hour lessons a week)..... | \$45.00 |
| One term's instruction (one half hour lesson a week).....  | 25.00   |

*Instruction given by an Assistant*

|  |       |
|--|-------|
| One term's instruction (two half hour lessons a week)..... | 40.00 |
| One term's instruction (one half hour lesson a week).....  | 22.00 |

## PIANO

*Instruction given by Dr. Poehlmann or Prof. Mehner*

|                                   |         |
|-----------------------------------|---------|
| Two half hour lessons a week..... | \$45.00 |
| One half hour lesson a week.....  | 25.00   |

*Instruction given by an Assistant*

|                                   |       |
|-----------------------------------|-------|
| Two half hour lessons a week..... | 40.00 |
| One half hour lesson a week.....  | 22.00 |

## ORGAN

*Instruction given by Prof. Mehner*

|                                   |         |
|-----------------------------------|---------|
| Two half hour lessons a week..... | \$45.00 |
| One half hour lesson a week.....  | 25.00   |

## VIOLIN

*Instruction given by Miss Reynolds*

|                                   |         |
|-----------------------------------|---------|
| Two half hour lessons a week..... | \$45.00 |
| One half hour lesson a week.....  | 25.00   |

## OTHER EXPENSES

|                                       |         |
|---------------------------------------|---------|
| Harmony (in classes).....             | \$20.00 |
| Counterpoint (in classes of two)..... | 25.00   |
| Composition (in classes of two).....  | 30.00   |
| Teachers' Instruction in Piano.....   | 15.00   |
| Teachers' Instruction in Voice.....   | 15.00   |
| Dictation and Ear Training.....       | 10.00   |
| Forms and Analysis .....              | 15.00   |
| Piano Accompanist's Course .....      | 15.00   |
| Elements of Music.....                | 10.00   |

## DUET LESSONS IN PIANO

One half hour lesson with one of the Professors.....\$ 6.00

Piano duets are free for all students who have Piano and Harmony.

Chorus is free for all music students.

Music History is free for all music students.

|   |        |   |
|---|--------|---|
| Piano practice periods in the Music Hall, 40 minutes, for term..... | \$1.50 | : |
| For Music Library, Sheet Music for Chorus and Ensemble.....         | 1.00   |   |
| Fees for certificates of any kind.....                              | 2.00   |   |
| Additions or duplicates .....                                       | 1.00   |   |
| Organ practice periods, in Carnegie Hall, 1 hour, for the term..... | 5.00   |   |
| Certificates of Dismissal.....                                      | 1.50   |   |
| Diplomas .....  | 5.00   |   |
| Special Examinations .....  | 1.00   |   |

Tuition is payable invariably in advance. Students who have not paid their College bills or arranged for their payment, will be excluded from classes after the first week of the term. No matriculation or registration fees, or entrance fees to college athletic games are charged. A reduction of \$5 is made in the tuition for two lessons per week in Vocal, Piano, Organ, or Violin to the student who has already paid tuition for two lessons per week in another one of these branches.



## GROVE CITY SCHOOL OF ART

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*Miss Margaret Williams*

The Grove City School of Art was organized in 1893, since which time there has been a manifest growth of art sentiment in the community. It is closely affiliated with Grove City College.

Miss Margaret Williams who has charge of the School of Art, is a graduate of the Philadelphia School of Design. After completing her four years course, Miss Williams took an additional year in specializing in various fields. She was the honor graduate of her class and won high distinction throughout her course. After completing her work in the Philadelphia School of Design, Miss Williams was a city supervisor of school art. She later studied in Europe and has had wide experience both as a teacher and as an artist.

It has been the purpose of Grove City College in the maintenance of the School of Art to stimulate an interest in the fine arts in its various forms and phases. The growing realization of the importance of this field of work is indicated by the recognition that is being given art in the public schools. It is scarcely too much to say that there are few fields of endeavor which have higher cultural value than the one of fine arts. A strong appeal is made to the creative faculties as well as to the powers of representation.

The Normal Art Course as outlined in the catalogue is designed primarily to give the student a knowledge of the various forms of art and to fit him for work in the public schools. It is subject to variation and those students who plan to continue in the work will be given such training as will best fit them for advanced study.

The following is a brief outline of the work compassed in the Normal Art Course: lead pencil drawing after foliage and flowers from nature, with training in observation in plant growth for use

in flower painting from nature; charcoal drawing from still life as exercises in composition and for study of varied color values; brush drawing in sepia and charcoal gray, from foliage, casts and still life; practice for the handling of water color; historic ornament; time sketching; perspective; antique drawing from casts of the human body; water color from the flat and from nature, oil from the flat and from nature, china decorating; art history; outdoor sketching.

For those desiring to teach art in the schools, special work is outlined in mechanical drawing, design, historic ornament, figure and animal drawing, pictorial representation, art history, etc.

For those who wish to specialize in any field an opportunity is afforded. Special courses are offered in china decorating, water color, oils, design and sketching.

The course in sketching makes a strong appeal to those who expect to enter the teaching profession, to those interested in business in its various phases, as well as those interested in engineering and illustration. This course is arranged to meet once each week. Among the subjects included in the sketch classes will be object and cast drawing, portrait sketching, costume model sketching, poster work, advertising, business, etc.

In china decorating stress will be placed on the making of original designs and applying the same to china. All of the latest methods of china decorating including the dusting color, enamel work, etc., will be taught. There will be an opportunity to secure training in the decoration of lamps, parchment shades and other products.

In the class in water color the scrub method is used. Miss Williams is particularly well fitted to teach this method as she is a former pupil of Mr. Henry B. Small, N. A., the President of the New York Water Color Club.

## **NORMAL ART COURSE**

### **First Year**

#### **FIRST TERM**

Historic Ornament

Application of Historic Ornament

Drawing or Painting from Flowers

Conventionalization  
Cast Drawing  
Theory of Color  
Sketching  
Perspective, Mechanical and Freehand  
Physical Training

#### SECOND TERM

Geometric Construction  
Applied Design  
Cast Drawing  
Still Life Painting  
Lettering and Commercial Advertising  
Sketching  
Art History  
Physical Training

#### THIRD TERM

Applied Design  
Painting in Oil  
Drawing from Antique  
Painting in Water Color  
Illustration  
Art History  
Physical Training

#### Second Year

##### FIRST TERM

Applied Design  
Painting in Oil  
Figure Construction  
Drawing from Antique  
Painting in Water Color  
Modeling  
Sketching  
Psychology  
Physical Training

##### SECOND TERM

Applied Design  
History of Arts, Furniture, Costume  
Painting in Water Color  
Drawing from Antique  
Painting in Oil  
Modeling  
Sketching  
Psychology  
Physical Training

### THIRD TERM

Applied Design  
 Painting in Water Color  
 Drawing from Antique  
 Arts and Crafts  
 Blackboard  
 Special Methods  
 Modeling  
 Illustration  
 Psychology  
 Physical Training

Note books must be submitted and examinations in historic ornament, perspective and history of art passed successfully to secure graduation.

All students of this class will be given opportunity for practice teaching.

The regular course in the fine arts is compassed by the average pupil in two years, if the entire time is spent in the studio. This includes four regular lessons a week from the instructor and personal criticisms in all the work done in her absence. The tuition for the full course work is forty dollars (\$40) a term. To those not wishing to follow the regular course of work two lessons a week will be given for twenty dollars (\$20) a term. Students who desire to take literary work can do so by paying three dollars (\$3) for each credit hour in collegiate subjects. Art students who take music pay the full tuition in the department.

### RATES OF TUITION A TERM

|                            |         |
|----------------------------|---------|
| Course in Fine Arts .....  | \$40.00 |
| Course in School Art ..... | 40.00   |
| China Painting .....       | 20.00   |
| Water Color .....          | 20.00   |
| Oil .....                  | 20.00   |
| Design .....               | 20.00   |
| Sketching .....            | 10.00   |

## DEGREES AND HONORS

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At the annual meeting of the Board of Trustees, June 15th, 1920, the following degrees were conferred; they were awarded at the Commencement, June 16th, 1920.

### Bachelor of Arts

|                                |                    |
|--------------------------------|--------------------|
| William Rice Anderson.....     | Wilksburg, Pa.     |
| Clarence Henry Boylan.....     | Hadley, Pa.        |
| Bessie Mae Grace.....          | Grove City, Pa.    |
| Margaret Blythe Grosse.....    | Vandergrift, Pa.   |
| Helen Jeannette Hartt.....     | Mercer, Pa.        |
| Anne Elizabeth Hepler.....     | Butler, Pa.        |
| Philip Brandon Hill.....       | Grove City, Pa.    |
| Viola Myrtilla Lowstetter..... | Hazzard, Pa.       |
| Carbus Clare Magee.....        | Slippery Rock, Pa. |
| Clifford Curtis Phipps.....    | Clintonville, Pa.  |
| Loraine Tinker.....            | Grove City, Pa.    |
| Robert Jackson Vaughn.....     | Hadley, Pa.        |
| Deane Craig Walter.....        | Export, Pa.        |
| Goodwin Bryan Webster.....     | Harveys, Pa.       |

### Bachelor of Literature

|                                      |                  |
|--------------------------------------|------------------|
| Wilda Elizabeth Barnes.....          | Grove City, Pa.  |
| Mary Rebekah Christy.....            | Grove City, Pa.  |
| Marion Ruth Foltz.....               | Grove City, Pa.  |
| Roland Dana Heile.....               | Transfer, Pa.    |
| Grace McCune.....                    | Grove City, Pa.  |
| Jessie Bone Moore.....               | Grove City, Pa.  |
| Agnes Elizabeth Nesbitt.....         | Wooster, Ohio    |
| Laurace Amelia Marie Richardson..... | Kittanning, Pa.  |
| Mary Ethel Robertson.....            | Cowansville, Pa. |
| Gladys Miriam Slough.....            | Cleveland, Ohio  |
| Edgar Earl Weil.....                 | Braddock, Pa.    |
| Margaret Blanche Wiggins.....        | Vandergrift, Pa. |

### Bachelor of Science

|                                  |                    |
|----------------------------------|--------------------|
| Charles Lee Ackley.....          | Sigel, Pa.         |
| John Gerald Allen.....           | Allen's Mills, Pa. |
| Harold Kenneth Baer.....         | New Castle, Pa.    |
| Winsor Stowe Collart.....        | Grove City, Pa.    |
| William Johnston Cribbs.....     | Grove City, Pa.    |
| Wilbert Roscoe Gregg.....        | Grove City, Pa.    |
| Joseph Kilgore Heckert.....      | Bakerstown, Pa.    |
| John Albro Hoban.....            | Dunmore, Pa.       |
| Mont Hamilton Hodge.....         | Grove City, Pa.    |
| Clifford Vaughn Kightlinger..... | Townville, Pa.     |

|                             |                 |
|-----------------------------|-----------------|
| Offutt Hunter Locke.....    | Beaver, Pa.     |
| Harry Shannon Manson.....   | Grove City, Pa. |
| Mildred A. Mizner.....      | Wheatland, Pa.  |
| Roger Maxwell Ormond.....   | Grove City, Pa. |
| Harold Seymour Ritchey..... | Grove City, Pa. |
| Arthur Raymond Stewart..... | Transfer, Pa.   |
| David Boyce Stewart.....    | Parnassus, Pa.  |
| Arthur Edwin Uber.....      | Grove City, Pa. |

### Music

|                               |                       |
|-------------------------------|-----------------------|
| Gertrude Elizabeth Burns..... | North Washington, Pa. |
| William Everett Gilson.....   | Leechburg, Pa.        |
| Beatrice Marie Hoover.....    | Mechanicsville, N. Y. |
| Olive Angeline Moon.....      | Mercer, Pa.           |
| Ruth Mary Pettis.....         | Cranesville, Pa.      |

### Secretarial

|                               |                    |
|-------------------------------|--------------------|
| Janet Nevin Allison.....      | Punxsutawney, Pa.  |
| Elizabeth Bell.....           | Punxsutawney, Pa.  |
| Grace Ida Bricker.....        | Cabot, Pa.         |
| Margaret Isabel Crawford..... | Grove City, Pa.    |
| Anna Houston Dixon.....       | Clymer, Pa.        |
| Ruth Arminta Filer.....       | Grove City, Pa.    |
| Susan Irene Hainley.....      | Vandergrift, Pa.   |
| Mary Elizabeth Jahnig.....    | Saxonburg, Pa.     |
| Margery, Lloyd.....           | Erie, Pa.          |
| Margaret Ruth White.....      | Skaneateles, N. Y. |

### Master of Arts in Cursu

|                                |               |
|--------------------------------|---------------|
| Margaret Elizabeth Dickey..... | Oil City, Pa. |
|--------------------------------|---------------|

### Doctor of Divinity Causa Honoris

|  |
|--|
| Reverend R. L. Foulke, '99, Pastor of the "Old Stone Church" of Meadville, Pa. |
|--|

### Doctor of Laws Causa Honoris

|  |
|--|
| Honorable William C. Sproul, Governor of Pennsylvania.           |
| Honorable George S. Criswell, Presiding Judge of Venango County. |

### Honors

|   |
|---|
| Magna cum laude—Helen Jeannette Hartt, Mildred A. Mizner, Agnes Elizabeth Nesbitt.  |
| Cum laude—Charles Lee Ackley, William Rice Anderson, Clarence Henry Boylan, Bessie Mae Grace, Carbus Clare Magee, Jessie Bone Moore, Laurace Amelia Marie Richardson, Margaret Blanche Wiggins. |

### Special Certificate in Oratory

Helen Jeannette Hartt



## ROSTER OF STUDENTS

### Post Graduates

|                              |                       |
|------------------------------|-----------------------|
| Adams, W. B.....             | Punxsutawney, Pa.     |
| Bell, Ellen.....             | North Washington, Pa. |
| Biles, J. Howard.....        | Grove City, Pa.       |
| Black, Lois.....             | Grove City, Pa.       |
| Eckles, Port.....            | Farrell, Pa.          |
| Frew, Margaret.....          | Grove City, Pa.       |
| Myers, Albert W.....         | Madrid, New York      |
| Patterson, Allen DeWitt..... | New Castle, Pa.       |
| Robb, S. M.....              | Johnsonburg, Pa.      |
| Robinson, Ernest L.....      | Grove City, Pa.       |
| Studebaker, Mrs. J. J.....   | Slippery Rock, Pa.    |

### Seniors

|                                  |                       |
|----------------------------------|-----------------------|
| Ackley, Lee.....                 | Sigel, Pa.            |
| Allen, John Gerald.....          | Allens Mills, Pa.     |
| Allison, Janet.....              | Punxsutawney, Pa.     |
| Anderson, William R.....         | Wilkinsburg, Pa.      |
| Baer, Harold K.....              | New Castle, Pa.       |
| Baker, Harold K.....             | Hindman, Kentucky     |
| Barnes, Wilda.....               | Slippery Rock, Pa.    |
| Bell, Elizabeth.....             | Punxsutawney Pa.      |
| Black, LeRoy T.....              | Parkers Landing, Pa.  |
| Bowser, John A.....              | Kittanning, Pa.       |
| Boylan, Clarence.....            | Hadley, Pa.           |
| Bricker, Grace.....              | Cabot, Pa.            |
| Burns, Gertrude.....             | North Washington, Pa. |
| Christy, Mary.....               | Grove City, Pa.       |
| Collart, Winsor.....             | Grove City, Pa.       |
| Crawford, Margaret.....          | Grove City, Pa.       |
| Cribbs, Wm. J.....               | Grove City, Pa.       |
| Crossman, Mrs. Jessie Evans..... | Grove City, Pa.       |
| Dixon, Anna.....                 | Clymer, Pa.           |
| Filer, Ruth A.....               | Grove City, Pa.       |
| Foltz, Ruth.....                 | Grove City, Pa.       |
| Gilson, William E.....           | Leechburg, Pa.        |
| Gould, George.....               | Grove City, Pa.       |
| Grace, Bessie.....               | Grove City, Pa.       |
| Gregg, Wilbert R.....            | Grove City, Pa.       |
| Grosse, Blythe.....              | Vandergrift, Pa.      |
| Hainley, Susan.....              | Vandergrift, Pa.      |
| Hartt, Helen.....                | Mercer, Pa.           |
| Heckert, Joseph K.....           | Bakerstown, Pa.       |
| Heile, Roland D.....             | Transfer, Pa.         |
| Hepler, Elizabeth.....           | Butler, Pa.           |
| Hill, Philip.....                | Grove City, Pa.       |
| Hoban, J. Albro.....             | Dunmore, Pa.          |

|                                |                          |
|--------------------------------|--------------------------|
| Hodge, Mont H.....             | Grove City, Pa.          |
| Hoover, Beatrice.....          | Mechanicsville, New York |
| Jahnig, Mary.....              | Saxonburg, Pa.           |
| Kightlinger, Clifford.....     | Townville, Pa.           |
| Kroh, James H.....             | Rural Valley, Pa.        |
| Lloyd, Margery.....            | Erie, Pa.                |
| Locke, Offutt H.....           | Woodlawn, Pa.            |
| Lowstetter, Viola.....         | Hazzard, Pa.             |
| Lyon, Fred.....                | Butler, Pa.              |
| McCune, Grace.....             | Grove City, Pa.          |
| McMullen, Genevieve.....       | Grove City, Pa.          |
| Magee, Carbus.....             | Slippery Rock, Pa.       |
| Magee, Ralph.....              | Grove City, Pa.          |
| Manson, Harry.....             | Grove City, Pa.          |
| Mizner, Mildred.....           | Wheatland, Pa.           |
| Moon, Olive.....               | Mercer, Pa.              |
| Moore, Jessie B.....           | Grov City, Pa.           |
| Nesbitt, Agnes.....            | Wooster, Ohio            |
| Ormond, Roger.....             | Grove City, Pa.          |
| Pettis, Ruth.....              | Cranesville, Pa.         |
| Phipps, Clifford C.....        | Clintonville, Pa.        |
| Raymond, Mark.....             | Grove City, Pa.          |
| Reicherter, Emily.....         | Brookville, Pa.          |
| Richardson, Amelia.....        | Kittanning, Pa.          |
| Ritchey, Harold S.....         | Grove City, Pa.          |
| Robertson, Mary.....           | Cowansville, Pa.         |
| Slough, Miriam.....            | Cleveland, Ohio          |
| Stewart, Anne.....             | Coal Glen, Pa.           |
| Stewart, Arthur.....           | Transfer, Pa.            |
| Stewart, David B.....          | Parnassus, Pa.           |
| Tinker, Loraine.....           | Grove City, Pa.          |
| Uber, Arthur.....              | Grove City, Pa.          |
| Vaughn, Robert J.....          | Hadley, Pa.              |
| Walter, Deane C.....           | Export, Pa.              |
| Ward, Roscoe H.....            | Pleasantville, Pa.       |
| Ware, Clinton F.....           | Townville, Pa.           |
| Webster, Goodwin B.....        | Harveys, Pa.             |
| Weil, Edgar E.....             | Braddock, Pa.            |
| Wertman, Charles.....          | Franklin, Pa.            |
| White, Margaret R.....         | Skaneateles, New York    |
| Wiggins, Margaret.....         | Vandrgift, Pa.           |
| Total, 74; Men, 39; Women, 35. |                          |

## Juniors

|                             |                     |
|-----------------------------|---------------------|
| Anderson, Kathryn.....      | Grove City, Pa.     |
| Augustine, Paul.....        | Pittsburgh, Pa.     |
| Batchelor, Donald.....      | Hicksville, Ohio    |
| Battista, Lucie.....        | Dunmore, Pa.        |
| Black, Elizabeth.....       | Franklin, Pa.       |
| Bloom, Worth.....           | DuBois, Pa.         |
| Breckenridge, Florance..... | Grove City, Pa.     |
| Caldwell, Agnes.....        | Butler, Pa.         |
| Chamberlain, Robert.....    | Seattle, Washington |
| Dunlap, Hazel.....          | Harrisville, Pa.    |
| Graham, Elfrieda.....       | Grove City, Pa.     |
| Hall, Sumner.....           | Grove City, Pa.     |
| Henry, Alan.....            | Grove City, Pa.     |

|                                |                     |
|--------------------------------|---------------------|
| Herron, Wilmer B.....          | Fredonia, Pa.       |
| Hespenheide, Frances.....      | Mars, Pa.           |
| Hettenbaugh, Christina.....    | Grove City, Pa.     |
| Hosick, Mary.....              | Grove City, Pa.     |
| Humphrey, Julia.....           | Harrisville, Pa.    |
| Irwin, Lois.....               | Evans City, Pa.     |
| Kaufman, C. E.....             | Lamar, Pa.          |
| McCandless, Porter.....        | Slippery Rock, Pa.  |
| McClelland, Frank.....         | Jackson Center, Pa. |
| Maharg, John.....              | Renfrew, Pa.        |
| Marshall, J. Dean.....         | Mars, Pa.           |
| Monroe, G. Karl.....           | Butler, Pa.         |
| Montgomery, Hazel.....         | Grove City, Pa.     |
| Onstott, Ruth.....             | Saltsburg, Pa.      |
| Patterson, Charles L.....      | Grove City, Pa.     |
| Peterson, Robert E.....        | Bradford, Pa.       |
| Phipps, Thomas.....            | Clintonville, Pa.   |
| Ralston, Doris.....            | Zelienople, Pa.     |
| Robbins, Glenna.....           | Grove City, Pa.     |
| Rohrer, Marguerite.....        | Albion, Pa.         |
| Ruddock, William.....          | Indiana, Pa.        |
| Ruffner, Charles.....          | Indiana, Pa.        |
| Schaefer, Edna.....            | Edgewood, Pa.       |
| Smith, Logan, Jr.....          | Falls Creek, Pa.    |
| Surrena, Harland.....          | Grove City, Pa.     |
| Tallant, David.....            | Murraysville, Pa.   |
| Tinker, Helen.....             | Boyers, Pa.         |
| Walter, W. Floyd.....          | Export, Pa.         |
| Webster, Marie.....            | Harveys, Pa.        |
| Wood, Floyd.....               | Grove City, Pa.     |
| Wood, Hazel.....               | Grove City, Pa.     |
| Younggren, Esther.....         | Ridgway, Pa.        |
| Total, 45; Men, 23, Women, 22. |                     |

### Sophomores

|                           |                    |
|---------------------------|--------------------|
| Allison, Maude.....       | Grove City, Pa.    |
| Barber, Albert W.....     | Bellwood, Pa.      |
| Barnard, Harold.....      | Dayton, Pa.        |
| Barnard, John I.....      | Dayton, Pa.        |
| Barnes, Charles.....      | Pardoe, Pa.        |
| Beamer, Ralph K.....      | Murraysville, Pa.  |
| Black, Paul.....          | Grove City, Pa.    |
| Buxton, Paul.....         | Valencia, Pa.      |
| Cameron, Francis W.....   | New Castle, Pa.    |
| Campbell, Charlotte.....  | Grove City, Pa.    |
| Campbell, Sutherland..... | Beaver, Pa.        |
| Carr, Deryl.....          | Grove City, Pa.    |
| Cross, Webster.....       | Bruin, Pa.         |
| Currier, Stanley.....     | Mercer, Pa.        |
| Davidson, Marjorie.....   | Evans City, Pa.    |
| Davis, Genevieve.....     | Grove City, Pa.    |
| Dean, Howard.....         | Mars, Pa.          |
| Dodd, Leila.....          | Grove City, Pa.    |
| Doutt, Ralph E.....       | Polk, Pa.          |
| Dow, Walter B.....        | Grove City, Pa.    |
| Ellenberger, Quay.....    | Cowansville, Pa.   |
| Fails, Allen G.....       | Livermore, Pa.     |
| Fallon, Arthur.....       | Pittsford, Vermont |

|                              |                         |
|------------------------------|-------------------------|
| Filer, Rollin.....           | Grove City, Pa.         |
| Forrest, Helen.....          | Grove City, Pa.         |
| Fredley, Henry E.....        | Butler, Pa.             |
| Glenn, Grace.....            | Mercer, Pa.             |
| Gray, Lillian.....           | Amity, Pa.              |
| Hazlett, Annie.....          | Grove City, Pa.         |
| Hazlett, Mary.....           | Grove City, Pa.         |
| Henderson, Katherine.....    | West Pittsburgh, Pa.    |
| Henshaw, Harry.....          | Houtzdale, Pa.          |
| Hoesch, Elwood M.....        | Greenville, Pa.         |
| Hoyt, Olin B.....            | Waddington, New York    |
| Jack, Frank P.....           | North Washington, Pa.   |
| Kelso, John.....             | Avalon, Pa.             |
| Kilchenstein, Laila.....     | Sharon, Pa.             |
| King, James M.....           | Grove City, Pa.         |
| Korona, Louis.....           | Argentine, Pa.          |
| Kutscher, Charles.....       | Braddock, Pa.           |
| Kymer, George.....           | Hazelhurst, Pa.         |
| McBride, Arthur.....         | Grove City, Pa.         |
| McCandless, Garrett.....     | Grove City, Pa.         |
| McCandless, Lee.....         | Euclid, Pa.             |
| McConnell, Dufferin.....     | Wilkinsburg, Pa.        |
| McCoy, Martha.....           | Grove City, Pa.         |
| McElligott, Edithmarion..... | Butler, Pa.             |
| McElligott, Lee.....         | Butler, Pa.             |
| McLaughlin, John.....        | Shippensville, Pa.      |
| Mansfield, Zola.....         | Sykesville, Pa.         |
| Miller, Glenn.....           | Grove City, Pa.         |
| Moguel, Alfredo.....         | Merida, Yucatan, Mexico |
| Morledge, Joseph.....        | Grove City, Pa.         |
| Munnell, Mabel.....          | Mercer, Pa.             |
| Neigh, Ralph.....            | Grove City, Pa.         |
| Nevin, Neal.....             | Homestead, Pa.          |
| Patton, Stewart U.....       | Parkers Landing, Pa.    |
| Risheberger, Paul.....       | Greenville, Pa.         |
| Salazar, Jose.....           | Merida, Yucatan, Mexico |
| Shelley, Martha.....         | Grove City, Pa.         |
| Shrum, Edward J.....         | Greenwald, Pa.          |
| Simmons, Jane F.....         | Grove City, Pa.         |
| Sisley, J. Robert.....       | Grove City, Pa.         |
| Smith, Frankie.....          | Falls Creek, Pa.        |
| Smith, Margaret.....         | Falls Creek, Pa.        |
| Smith, Wendell.....          | Oil City, Pa.           |
| Snyder, George.....          | Uhricsville, Ohio       |
| Spargrove, George.....       | Wesleyville, Pa.        |
| Stepanian, Steven.....       | Hartford, Connecticut   |
| Sterrett, Charles.....       | Grove City, Pa.         |
| Stewart, Margaret.....       | Coal Glen, Pa.          |
| Tinker, Annie.....           | Grove City, Pa.         |
| Van Woert, Kathleen.....     | Donora, Pa.             |
| Venen, Frances.....          | Springboro, Pa.         |
| Welch, George.....           | Grove City, Pa.         |
| Williams, Ralph.....         | Grove City, Pa.         |
| Woodward, Charles.....       | Indiana, Pa.            |
| Young, Paul.....             | Grove City, Pa.         |

Total, 78; Men, 54; Women, 24.

## Freshmen

|                      |                      |
|----------------------|----------------------|
| Agnew, William W.    | Fort Worth, Texas    |
| Albert, Sarepta      | Mercer, Pa.          |
| Alexander, W. Hodge  | Washington, Pa.      |
| Allen, Sarah         | Allen's Mills, Pa.   |
| Allison, John R.     | Grove City, Pa.      |
| Alworth, Carrie      | Parkers Landing, Pa. |
| Anderhalt, Athelston | Cochranston, Pa.     |
| Anderson, Clarence   | Slippery Rock, Pa.   |
| Anderson, Paul       | Ridgway, Pa.         |
| Appleyard, Samuel    | Beaverdale, Pa.      |
| Armstrong, Elizabeth | Franklin, Pa.        |
| Armstrong, Duane     | Apollo, Pa.          |
| Armstrong, R. M.     | Apollo, Pa.          |
| Atkinson, William    | Grove City, Pa.      |
| Baker, Ethel         | Farrell, Pa.         |
| Barber, Elizabeth    | Grove City, Pa.      |
| Barnes, Eleanor      | Grove City, Pa.      |
| Baughman, Lon        | DuBois, Pa.          |
| Bennett, Josephine   | Youngstown, Ohio     |
| Book, Herbert        | Slippery Rock, Pa.   |
| Bowden, Clifford     | Grove City, Pa.      |
| Bowmer, Cecil L.     | Grove City, Pa.      |
| Boyd, James          | Cherry Valley, Pa.   |
| Boyd, Monfred        | Cherry Valley, Pa.   |
| Boyer, Kathryn       | Sharpsville, Pa.     |
| Brosius, Boyd        | Falls Creek, Pa.     |
| Bruner, Helen        | Grove City, Pa.      |
| Buechner, Harold     | Vandergrift, Pa.     |
| Burrows, Hazel       | Grove City, Pa.      |
| Burrows, Merle       | Grove City, Pa.      |
| Calderwood, Helen    | Grove City, Pa.      |
| Campbell, Malcolm    | Grove City, Pa.      |
| Campbell, P. J.      | Grove City, Pa.      |
| Carr, Gladys         | Grove City, Pa.      |
| Chambers, Margaret   | Pittsburgh, Pa.      |
| Charles, Margaret    | Grove City, Pa.      |
| Christie, James      | Grove City, Pa.      |
| Clark, LeRoy         | Grove City, Pa.      |
| Clark, Mary Z.       | Grove City, Pa.      |
| Coast, Nancy         | Grove City, Pa.      |
| Coleman, Erla        | Grove City, Pa.      |
| Collins, Jane        | Franklin, Pa.        |
| Colucci, Marie       | Youngstown, Ohio     |
| Cooper, Ruth         | McKeesport, Pa.      |
| Covert, Nola         | Grove City, Pa.      |
| Creighton, Alvirda   | Mercer, Pa.          |
| Cribbs, Janet        | Franklin, Pa.        |
| Cronenwett, Helen    | Butler, Pa.          |
| Culkin, John         | Scranton, Pa.        |
| Curtin, Vincent      | Dunmore, Pa.         |
| Dannels, Gordon      | Enon Valley, Pa.     |
| Daugherty, Harold    | Grove City, Pa.      |
| Daugherty, Thomas    | East Liverpool, Ohio |
| Davis, Carleton      | Warren, Pa.          |
| Davis, Mable         | Volant, Pa.          |
| Dean, Florence P.    | Pittsburgh, Pa.      |
| Detar, Edna          | Vandergrift, Pa.     |



|                          |                     |
|--------------------------|---------------------|
| Detrick, Flossie.....    | Butler, Pa.         |
| Doherty, Stella.....     | New Kensington, Pa. |
| Drake, Ellis.....        | Hornell, New York   |
| Dunlap, Harold.....      | Grove City, Pa.     |
| Durfee, Edwin.....       | Townville, Pa.      |
| Eakin, Isabelle M.....   | Stoneboro, Pa.      |
| Edeburn, LeRoy.....      | West Middlesex, Pa. |
| Evans, John W.....       | Duquesne, Pa.       |
| Ewing, Josephine.....    | Tarentum, Pa.       |
| Farren, John W.....      | Harrisville, Pa.    |
| Filer, Helen.....        | Grove City, Pa.     |
| Fisher, Eleanor.....     | Braddock, Pa.       |
| Forbes, Isabelle.....    | Apollo, Pa.         |
| Forrester, Chester.....  | Grove City, Pa.     |
| Forrester, Margaret..... | Grove City, Pa.     |
| Foster, Nellie.....      | Volant, Pa.         |
| Frew, Howard M.....      | New Castle, Pa.     |
| Fry, Daniel.....         | Kelly Station, Pa.  |
| Fuhrer, Stanley.....     | Grove City, Pa.     |
| Furman, Wayne.....       | Baxter, Pa.         |
| Gilbert, Helen.....      | Titusville, Pa.     |
| Gillespie, James H.....  | Glen Spey, New York |
| Glasgow, George.....     | Vandergrift, Pa.    |
| Gould, Beatrice.....     | Butler, Pa.         |
| Gregory, Franklin.....   | New Castle, Pa.     |
| Grosse, Aaron.....       | Grove City, Pa.     |
| Hamilton, Wm. J.....     | Grove City, Pa.     |
| Harmon, Herbert.....     | Grove City, Pa.     |
| Harney, Hood.....        | Shields, Pa.        |
| Harshaw, Elizabeth.....  | Grove City, Pa.     |
| Heinze, Elizabeth.....   | Farrell, Pa.        |
| Hemphill, Lynn J.....    | Apollo, Pa.         |
| Henry, Marian.....       | Grove City, Pa.     |
| Hespenheide, Ruth.....   | Mars, Pa.           |
| Hinderliter, Fay.....    | Reynoldsville, Pa.  |
| Hodge, Margaret.....     | Grove City, Pa.     |
| Hoffman, Kelse.....      | Kennerdell, Pa.     |
| Hoffman, Louise.....     | Grove City, Pa.     |
| Homer, Lloyd.....        | Fredonia, Pa.       |
| Hosick, Elizabeth.....   | Grove City, Pa.     |
| Houston, Ramon.....      | Grove City, Pa.     |
| Howe, Jeannette.....     | Grove City, Pa.     |
| Huey, Vera.....          | Jackson Center, Pa. |
| Humphrey, Walter.....    | Portersville, Pa.   |
| Ingham, Fenton.....      | New Castle, Pa.     |
| Jackson, Margaret.....   | Saltsburg, Pa.      |
| Jahnig, William O.....   | Saxonburg, Pa.      |
| Jamison, Mary.....       | Emlenton, Pa.       |
| Johnston, Eugene.....    | Grove City, Pa.     |
| Johnson, Hazel E.....    | Westville, Pa.      |
| Jones, Ben.....          | DuBois, Pa.         |
| Keane, Patrick.....      | Bellaire, Ohio      |
| Keck, Catharine.....     | Mercer, Pa.         |
| Keck, Ruth.....          | Mercer, Pa.         |
| Kelly, Laura.....        | Grove City, Pa.     |
| Kemerer, James.....      | Duquesne, Pa.       |
| Kendrick, Oliver.....    | Duquesne, Pa.       |
| Kennedy, J. Perry.....   | Woodlawn, Pa.       |
| Kifer, Paul.....         | Grove City, Pa.     |



|                            |                      |
|----------------------------|----------------------|
| Kingan, Katherine.....     | Grove City, Pa.      |
| Kinley, Forrest.....       | Portland Mills, Pa.  |
| Kraus, Lawrence.....       | Ellwood City, Pa.    |
| Kryskill, William.....     | Carnegie, Pa.        |
| Kuhn, Harold.....          | Hadley, Pa.          |
| Lindsey, James.....        | Portland Mills, Pa.  |
| Lithgow, Lorna.....        | Grove City, Pa.      |
| Love, Dallas.....          | Falls Creek, Pa.     |
| Lowers, Paul.....          | Stoneboro, Pa.       |
| Lukehart, James V.....     | Falls Creek, Pa.     |
| Luna, Charles.....         | La Paz, Bolivia      |
| Lurie, Sophie.....         | Sharon, Pa.          |
| Lyons, Ernest.....         | Lanse, Pa.           |
| McCabe, Joseph.....        | Leechburg, Pa.       |
| McCandless, Calvin.....    | West Sunbury, Pa.    |
| McCommon, Isaac.....       | Grove City, Pa.      |
| McCoy, Everett.....        | Grove City, Pa.      |
| McCoy, Margaret.....       | Grove City, Pa.      |
| McCullough, Jean.....      | Sharpsville, Pa.     |
| McCullough, Walter.....    | Vandergrift, Pa.     |
| McCune, Martin.....        | Grove City, Pa.      |
| McDowell, Mary I.....      | Grove City, Pa.      |
| McDowell, Quincy.....      | Grove City, Pa.      |
| McMillin, James J.....     | New Castle, Pa.      |
| Magee, Wendell.....        | Slippery Rock, Pa.   |
| Marguglio, Lillian.....    | Grove City, Pa.      |
| Master, Carl.....          | Fern, Pa.            |
| Merwin, William S.....     | Pittsburgh, Pa.      |
| Michaels, Mildred.....     | Grove City, Pa.      |
| Mills, E. Laird.....       | Braddock, Pa.        |
| Montgomery, Edward.....    | Grove City, Pa.      |
| Montgomery, Elizabeth..... | Grove City, Pa.      |
| Moore, Harry G.....        | Grove City, Pa.      |
| Morrow, Paul.....          | DuBois, Pa.          |
| Moss, Lee.....             | Iola, Illinois       |
| Mowl, Martha.....          | Washington, Pa.      |
| Nicholson, Stanley.....    | Grove City, Pa.      |
| Niece, Judith.....         | Grove City, Pa.      |
| Pears, Thomas.....         | Springboro, Pa.      |
| Pearson, Francis.....      | Franklin, Pa.        |
| Pettit, Leona.....         | McDonald, Pa.        |
| Porter, William G.....     | Grove City, Pa.      |
| Postelwaite, Amy.....      | Reynoldsville, Pa.   |
| Putts, Fred.....           | Rensselaer, Indiana  |
| Ralston, Paul.....         | Conneaut Lake, Pa.   |
| Rankin, Hazel.....         | Eighty-Four, Pa.     |
| Raub, Clifford.....        | Vandergrift, Pa.     |
| Repine, Charles.....       | Blairsville, Pa.     |
| Riddle, Ruth.....          | Enon Valley, Pa.     |
| Robinson, Rebecca.....     | Mercer, Pa.          |
| Rogers, Manuel.....        | Conneaut, Ohio       |
| Ross, Nell.....            | Grove City, Pa.      |
| Rumsey, Roscoe.....        | Clintonville, Pa.    |
| Sakemiller, Roy.....       | Columbus Grove, Ohio |
| Samberg, Samuel.....       | Ellwood City, Pa.    |
| Schall, Nicholas E.....    | Vandergrift, Pa.     |
| Schroeder, William.....    | Pittsburgh, Pa.      |
| Sellers, Henry.....        | Ford City, Pa.       |
| Severick, Edward.....      | Duquesne, Pa.        |

|                                  |                        |
|----------------------------------|------------------------|
| Shannon, A. E.                   | Beaverdale, Pa.        |
| Shaw, S. Benjamin                | Brockwayville, Pa.     |
| Shledon, Frank                   | Springboro, Pa.        |
| Shidemantle, Andrew              | Parkers Landing, Pa.   |
| Shillito, Harold                 | Grove City, Pa.        |
| Sibley, Harold                   | Brockton, New York     |
| Sibley, Wesley                   | Brockton, New York     |
| Small, Lorna                     | Nebraska, Pa.          |
| Smith, Don L.                    | Grove City, Pa.        |
| Smith, Joseph                    | Hartford, Connecticut  |
| Snyder, Grace                    | Dickerson Run, Pa.     |
| Snyder, Nellie                   | Dickerson Run, Pa.     |
| Stambaugh, Helen                 | Mercer, Pa.            |
| Stewart, Marion                  | Coal Glen, Pa.         |
| Stormer, Lena                    | Reynoldsville, Pa.     |
| Struchen, Bertha                 | Fairview, Pa.          |
| Taggart, Mabel                   | Washington, Pa.        |
| Thomas, Hilda                    | Taylor, Pa.            |
| Thomas, Trevor                   | Monesson, Pa.          |
| Thompson, Deborah                | Grove City, Pa.        |
| Thompson, Eugene                 | Indiana, Pa.           |
| Thompson, Wilbur                 | Grove City, Pa.        |
| Tinker, Ruth                     | Wick, Pa.              |
| Tobin, John                      | New Philadelphia, Ohio |
| Turner, Alfred                   | Grove City, Pa.        |
| Vath, Charles                    | Sandy Lake, Pa.        |
| Vazquez, Horacio                 | La Paz, Bolivia        |
| Wallace, John, Jr.               | Franklin, Pa.          |
| Watt, Karl                       | Apollo, Pa.            |
| Weaver, Frank                    | Mahaffey, Pa.          |
| White, Zella                     | Reynoldsville, Pa.     |
| Wildman, Ruth                    | Warren, Ohio           |
| Williamson, Stanley              | Grove City, Pa.        |
| Wilson, James                    | Grove City, Pa.        |
| Winner, Ellsworth                | Pittsburgh, Pa.        |
| Young, Harvey                    | Grove City, Pa.        |
| Young, Norwin                    | Butler, Pa.            |
| Young, Pauline                   | Enon Valley, Pa.       |
| Total, 213; Men, 126; Women, 87. |                        |

### Special

|                     |                     |
|---------------------|---------------------|
| Drake, Stella       | Old Forge, Pa.      |
| Eckles, Bessie      | Sharpsville, Pa.    |
| Fisher, Alice       | McKeesport, Pa.     |
| Foote, J. R.        | Bradford, Pa.       |
| Galley, Esther      | Mount Pleasant, Pa. |
| Hunter, Jane        | Latrobe, Pa.        |
| Jacobs, Ruth        | Irwin, Pa.          |
| Knauff, Stella      | Grove City, Pa.     |
| Kuhn, Evelyn        | Grove City, Pa.     |
| Lloyd, M. J.        | Taylor, Pa.         |
| Long, Agnes         | Carnegie, Pa.       |
| Montgomery, Blanche | Old Concord, Pa.    |
| Boyd, Park          | Franklin, Pa.       |
| Price, T. L.        | Shamokin, Pa.       |
| Renninger, Lottie   | Franklin, Pa.       |
| Ruffing, Marie      | Grove City, Pa.     |
| Rupert, Alice       | Mercer, Pa.         |

|                               |                 |
|-------------------------------|-----------------|
| Spearman, Ruth.....           | Grove City, Pa. |
| Vanderbosche, E. G.....       | California, Pa. |
| Winder, Jessie.....           | Mercer, Pa.     |
| Winton, Ray S.....            | Townville, Pa.  |
| Zimmerman, Miss.....          | Greenville, Pa. |
| Total, 22; Men, 6; Women, 16. |                 |

### Pedagogy Students—Summer Term

|                           |                     |
|---------------------------|---------------------|
| Allen, Mildred.....       | Cochranton, Pa.     |
| Anderson, Erla.....       | Mercer, Pa.         |
| Apple, Lillian.....       | Fallen Timber, Pa.  |
| Arnold, Mary.....         | Driftwood, Pa.      |
| Aurand, Lulu.....         | DuBois, Pa.         |
| Aurand, Olivette.....     | DuBois, Pa.         |
| Bagley, Sara.....         | Cherry Tree, Pa.    |
| Bailey, Myrtle.....       | Pleasantville, Pa.  |
| Bailey, Rose.....         | Connellsville, Pa.  |
| Baker, Ella.....          | Saltsburg, Pa.      |
| Ball, Blanche.....        | Leisenring, Pa.     |
| Bangert, Marie.....       | McKeesport, Pa.     |
| Barrett, Twila.....       | Smicksburg, Pa.     |
| Bartlebaugh, Lillie.....  | Gipsy, Pa.          |
| Bartoo, Mrs. Blanche..... | Mills, Pa.          |
| Baumgardner, J. M.....    | South Fork, Pa.     |
| Behe, Mary.....           | Lilly, Pa.          |
| Berger, Hannah.....       | McKeesport, Pa.     |
| Blakely, Jane.....        | DuBois, Pa.         |
| Blum, Selma.....          | Fayette City, Pa.   |
| Boots, Martha.....        | Grove City, Pa.     |
| Boyer, Ada.....           | St. Petersburg, Pa. |
| Boyles, Anna.....         | Connellsville, Pa.  |
| Briggs, Lulu.....         | Grove City, Pa.     |
| Brock, Juanita.....       | Spraggs, Pa.        |
| Brown, Mary.....          | Slippery Rock, Pa.  |
| Bruce, Beatrice.....      | Sandy Lake, Pa.     |
| Burket, Annie.....        | Hollidaysburg, Pa.  |
| Busler, Charles.....      | Brookville, Pa.     |
| Butler, Elizabeth.....    | Connellsville, Pa.  |
| Campbell, Margaret.....   | Patton, Pa.         |
| Campbell, Martha.....     | McGees Mills, Pa.   |
| Caplesky, Helen.....      | Shamokin, Pa.       |
| Cassidy, John.....        | Stoyestown, Pa.     |
| Christopher, Bryan.....   | Masontown, Pa.      |
| Clark, Evelyn.....        | Burgettstown, Pa.   |
| Colucci, Marie.....       | Youngstown, Ohio    |
| Cooper, Mary.....         | Livermore, Pa.      |
| Couch, Nellie.....        | Parkwood, Pa.       |
| Coulter, Mary.....        | Pleasantville, Pa.  |
| Coyle, Elsie.....         | Johnstown, Pa.      |
| Cramer, Alma.....         | Cresson, Pa.        |
| Cramer, Gertrude.....     | Cresson, Pa.        |
| Crawford, Lida.....       | New Florence, Pa.   |
| Creighton, Bessie.....    | Mercer, Pa.         |
| Crissman, Margaret.....   | Reedsville, Pa.     |
| Davis, Mrs. Margaret..... | Grove City, Pa.     |
| Decker, Margaret.....     | Butler, Pa.         |
| Deets, Julia.....         | Cochranton, Pa.     |
| Detar, Hazel.....         | Vandergrift, Pa.    |

|                           |                         |
|---------------------------|-------------------------|
| Dible, Margaret.....      | Parkwood, Pa.           |
| Dickey, Mary.....         | Berlin, Pa.             |
| Dickey, Ruth.....         | Berlin, Pa.             |
| Dill, Magdalen.....       | Weedville, Pa.          |
| Dillinger, Carrie.....    | Industry, Pa.           |
| Dixon, Beulah.....        | DuBois, Pa.             |
| Dodson, Gertrude.....     | Smicksburg, Pa.         |
| Doyle, Margaret.....      | Connellsville, Pa.      |
| Duffy, Margaret.....      | Parkwood, Pa.           |
| Eicher, Pearl.....        | Dunbar, Pa.             |
| Engle, Twila.....         | Cherry Tree, Pa.        |
| Feather, Lavina.....      | Clarks Mills, Pa.       |
| Fitzpatrick, Ruth.....    | Trevorton, Pa.          |
| Fox, Nettie.....          | Patton, Pa.             |
| Fratcher, Anna.....       | Butler, Pa.             |
| Frye, Cora.....           | Ligonier, Pa.           |
| Fuessler, Ruth.....       | Fairview, Pa.           |
| Fulton, Bernice.....      | Butler, Pa.             |
| Fye, Ethlyn.....          | DuBois, Pa.             |
| Gallagher, Jennie.....    | Prospect, Pa.           |
| Galley, Esther.....       | Mt. Pleasant, Pa.       |
| Galloway, Sara.....       | Volant, Pa.             |
| Garahan, Mary.....        | Knoxville, Pa.          |
| Gault, Minerva.....       | McKeesport, Pa.         |
| Gemmill, Clara.....       | Livermore, Pa.          |
| George, Anna.....         | Lilly, Pa.              |
| George, Grace.....        | Grove City, Pa.         |
| Giffin, Naomi.....        | Salix, Pa.              |
| Gillingham, Margaret..... | Donora, Pa.             |
| Glassburn, Willa.....     | Scottdale, Pa.          |
| Good, Sara.....           | Clymer, Pa.             |
| Gordon, Mary.....         | Rochester, Pa.          |
| Gordon, Sara.....         | McDonald, Pa.           |
| Gorman, Mildred.....      | Glen Campbell, Pa.      |
| Grace, Margaret.....      | Grove City, Pa.         |
| Graham, Stella.....       | Mercer, Pa.             |
| Green, Verna.....         | New Castle, Pa.         |
| Greenlee, Esther.....     | Grove City, Pa.         |
| Gregel, Agnes.....        | Butler, Pa.             |
| Gregory, Ethel.....       | Shickshinny, Pa.        |
| Griffith, Margaret.....   | Luzerne, Pa.            |
| Hadley, Esther.....       | Hadley, Pa.             |
| Hankey, Ethel.....        | Cayohoga Falls, Ohio    |
| Hare, Jane T.....         | Wheeling, West Virginia |
| Harsh, Helen.....         | Fredonia, Pa.           |
| Harsh, Irene.....         | Fredonia, Pa.           |
| Headley, Pauline.....     | Spraggs, Pa.            |
| Heimlich, Laura.....      | McKeesport, Pa.         |
| Henry, Mary.....          | Leisenring, Pa.         |
| Hewitt, Sara.....         | Uniontown, Pa.          |
| Hillegass, Pearl.....     | Berlin, Pa.             |
| Himes, Leila.....         | Brockport, Pa.          |
| Hinds, Lena.....          | Girard, Pa.             |
| Hinaman, Joseph.....      | Bradford, Pa.           |
| Hopkins, Norma.....       | Townville, Pa.          |
| Horning, Jeannette.....   | Huntingdon, Pa.         |
| Hosack, Mabel.....        | Mercer, Pa.             |
| Hostettler, Bernard.....  | Casselman, Pa.          |
| Ion, Rose.....            | Arroyo, Pa.             |

|                            |                       |
|----------------------------|-----------------------|
| Iseman, Clare.....         | Freeport, Pa.         |
| Jahnig, Viola.....         | Saxonburg, Pa.        |
| Jamison, Kenneth.....      | Jackson Center, Pa.   |
| Jefferson, Christella..... | Aspinwall, Pa.        |
| Johnson, Anna.....         | Mahaffey, Pa.         |
| Johnson, Mrs. Arvid.....   | Wheatland, Pa.        |
| Johnson, Edith.....        | Houtzdale, Pa.        |
| Johnson, Jessie.....       | Austin, Pa.           |
| Johnson, Leila.....        | Benezette, Pa.        |
| Johnson, Nellie.....       | McKeesport, Pa.       |
| Johnson, Segrif.....       | Bradford, Pa.         |
| Jones, Jennie.....         | McDonald, Pa.         |
| Jordan, Mae.....           | Valier, Pa.           |
| Kapp, Meedie.....          | Altoona, Pa.          |
| Kearns, Josephine.....     | Driftwood, Pa.        |
| Keefe, Katherine.....      | Pittsburgh, Pa.       |
| Kidd, Pearl.....           | Mars, Pa.             |
| Kline, Lillie.....         | Vandergrift, Pa.      |
| Knisely, Estella.....      | Queens, Pa.           |
| Koehler, Clara.....        | North Braddock, Pa.   |
| Krissinger, Adda.....      | Berlin, Pa.           |
| Laving, Esther.....        | Johnsonburg, Pa.      |
| Lawrence, Lucile.....      | Emlenton, Pa.         |
| Leighty, Mary.....         | Vanderbilt, Pa.       |
| Lemmon, Dora.....          | New Freeport, Pa.     |
| Lewis, Bertha.....         | Johnstown, Pa.        |
| Linder, Martha.....        | Ridgway, Pa.          |
| Lintner, Lida.....         | Knoxville, Pa.        |
| Livingston, Ruth.....      | Greenville, Pa.       |
| Long, Esther.....          | Oakmont, Pa.          |
| McCabe, Helen.....         | Meadville, Pa.        |
| McCawley, Mary.....        | McKeesport, Pa.       |
| McClellan, D. L.....       | Masontown, Pa.        |
| McClelland, George.....    | Jackson Center, Pa.   |
| McClure, Gorgine.....      | Jackson Center, Pa.   |
| McConnell, Blanche.....    | Grove City, Pa.       |
| McCrea, Nellie.....        | Mercer, Pa.           |
| McCurdy, Clara.....        | Branchton, Pa.        |
| McCutcheon, Nellie.....    | DuBois, Pa.           |
| McDonald, Louise.....      | McKeesport, Pa.       |
| McDougall, Eleanor.....    | Grove City, Pa.       |
| McGee, Lillian.....        | McGees Mills, Pa.     |
| McGuire, Edith.....        | Butler, Pa.           |
| McMahon, Grace.....        | Clearfield, Pa.       |
| Magill, Christine.....     | Tarentum, Pa.         |
| Maguire, Blanche.....      | Moween, Pa.           |
| Maguire, Minnie.....       | Moween, Pa.           |
| Maltby, Violet.....        | Wesleyville, Pa.      |
| Marcy, Ida.....            | East Springfield, Pa. |
| Mawhinney, Margaret.....   | Garr, Pa.             |
| Means, Mabelle.....        | Braddock, Pa.         |
| Meegan, Rose.....          | Connellsville, Pa.    |
| Meyer, Beulah.....         | Bruin, Pa.            |
| Millard, Betty.....        | Mercer, Pa.           |
| Miller, Anna.....          | Berlin, Pa.           |
| Miller, Birdella.....      | Dunbar, Pa.           |
| Miller, Inez.....          | Greenville, Pa.       |
| Miller, Mrs. Ruth.....     | Penfield, Pa.         |
| Millington, Geneva.....    | McKeesport, Pa.       |



|                           |                     |
|---------------------------|---------------------|
| Mistlebauer, Hannah.....  | Valier, Montana     |
| Mitchell, Mary.....       | Jackson Center, Pa. |
| Moremus, Joanna.....      | Brockport, Pa.      |
| Morland, Minnie.....      | Connellsville, Pa.  |
| Morlock, Anna.....        | Pittsburgh, Pa.     |
| Mortland, Esther.....     | Rixford, Pa.        |
| Mortland, Grace.....      | Rixford, Pa.        |
| Mowry, Lorena.....        | Transfer, Pa.       |
| Moyer, Estella.....       | Newry, Pa.          |
| Murtland, C. F.....       | Scottsdale, Pa.     |
| Neilson, Isabel.....      | Lilly, Pa.          |
| Nilson, Ruth.....         | McKeesport, Pa.     |
| Noel, Mary.....           | Loretta, Pa.        |
| Obenchain, Elizabeth..... | Greenville, Pa.     |
| Ober, George.....         | Clymer, Pa.         |
| Oknefski, Nettie.....     | Ridgway, Pa.        |
| Olshefski, Frank.....     | Ranshaw, Pa.        |
| Orr, Lola.....            | Fredonia, Pa.       |
| Overberger, Barbara.....  | Patton, Pa.         |
| Parks, Mary.....          | Vandergrift, Pa.    |
| Patterson, Mildred.....   | Polk, Pa.           |
| Peden, Marie.....         | Sandy Lake, Pa.     |
| Peoksky, Pete.....        | Excelsior, Pa.      |
| Perrine, Twila.....       | Jackson Center, Pa. |
| Peterson, Floretta.....   | McDonald, Pa.       |
| Peterson, Mildred.....    | McDonald, Pa.       |
| Pettit, Leona.....        | Monongahela, Pa.    |
| Philpott, Eltha.....      | Grove City, Pa.     |
| Pierce, Helen.....        | Burgettstown, Pa.   |
| Pitner, Frances.....      | Bruin, Pa.          |
| Postlewaite, Ella.....    | Punxsutawney, Pa.   |
| Pyle, Myra.....           | Burgettstown, Pa.   |
| Ramsey, Bertha.....       | Rochester, Pa.      |
| Ramsey, Elizabeth.....    | Butler, Pa.         |
| Ramsey, Nora.....         | Hanlin Station, Pa. |
| Rankin, Emily.....        | Conneaut Lake, Pa.  |
| Rathmel, Nellie.....      | Moores, Pa.         |
| Redden, Inez.....         | Mahaffey, Pa.       |
| Reimold, Marie.....       | Transfer, Pa.       |
| Reitz, Edna.....          | Ohl, Pa.            |
| Reitz, Mabel.....         | Ohl, Pa.            |
| Ripple, Lorena.....       | Costello, Pa.       |
| Robb, Marion.....         | Johnstown, Pa.      |
| Roman, Rachel.....        | McKeesport, Pa.     |
| Roy, Mrs. Lillie.....     | Belle Vernon, Pa.   |
| Sanders, Emily.....       | Monongahela, Pa.    |
| Schmelzer, Catherine..... | Grove City, Pa.     |
| Schneider, Carolyn.....   | Pittsburgh, Pa.     |
| Schondelmeyer, Cecil..... | Industry, Pa.       |
| Scott, Frances.....       | Clintonville, Pa.   |
| Scott, Letitia.....       | Burgettstown, Pa.   |
| Seeley, Myrtle.....       | DuBois, Pa.         |
| Senior, Ada.....          | Falls Creek, Pa.    |
| Sensabaugh, Leda.....     | Girard, Pa.         |
| Shaffer, Mary.....        | Hallton, Pa.        |
| Shanor, Fay.....          | Rochester, Pa.      |
| Shields, Mary.....        | Livermore, Pa.      |
| Shober, Etta.....         | Garrett, Pa.        |
| Shuler, Mildred.....      | Mercer, Pa.         |



|                           |                       |
|---------------------------|-----------------------|
| Shumaker, Freda.....      | Windber, Pa.          |
| Silbaugh, Ethel.....      | Confluence, Pa.       |
| Slater, Alberta.....      | Transfer, Pa.         |
| Smiley, Isabelle.....     | Butler, Pa.           |
| Smith, Elizabeth.....     | Fredonia, Pa.         |
| Smith, Linnie.....        | Gipsy, Pa.            |
| Stanley, Vera.....        | Sandy Lake, Pa.       |
| Stear, Verna.....         | Indiana, Pa.          |
| Stephenson, Margaret..... | Mahaffey, Pa.         |
| Sunshine, Elsie.....      | Pittsburgh, Pa.       |
| Sweetapple, Jessie.....   | Raymilton, Pa.        |
| Swisshelm, Laura.....     | Wilkinsburg, Pa.      |
| Taggart, Leona.....       | Grove City, Pa.       |
| Tait, Florence.....       | Mercer, Pa.           |
| Thompson, Neva.....       | Barnesboro, Pa.       |
| Tilbrook, Elsie.....      | Irwin, Pa.            |
| Tilbrook, Rebecca.....    | Irwin, Pa.            |
| Tilbrook, Ruth.....       | Irwin, Pa.            |
| Turner, Gertrude.....     | Sharon, Pa.           |
| Tyson, Helen.....         | McKeesport, Pa.       |
| Uber, Lillian.....        | Grove City, Pa.       |
| VanDerHoven, Jessie.....  | Pittsburgh, Pa.       |
| Wagoner, Leah.....        | Gibsonia, Pa.         |
| Wallace, Paul.....        | New Florence, Pa.     |
| Ward, Olive.....          | Grove City, Pa.       |
| Weaver, Ruth.....         | Mahaffey, Pa.         |
| Weinel, Agnes.....        | Apollo, Pa.           |
| Weltz, Meta.....          | Connellsville, Pa.    |
| Wetzel, Lulu.....         | McGees Mills, Pa.     |
| Whitman, Nora.....        | St. Mary's, Pa.       |
| Whitney, Mary.....        | Greenville, Pa.       |
| Widing, Helen.....        | Mercer, Pa.           |
| Wiley, Rose.....          | Oliphant Furnace, Pa. |
| Wineland, Florence.....   | Martinsburg, Pa.      |
| Woodward, Gladys.....     | James City, Pa.       |
| Wray, Helen.....          | Spring Church, Pa.    |
| Yeager, Pearl.....        | Murraysville, Pa.     |
| Young, Esther.....        | Barnesboro, Pa.       |
| Zwald, Frances.....       | Ridgway, Pa.          |

Total, 266; Men, 14; Women, 252.

# CONSERVATORY OF MUSIC

## Graduates (Full Course Students)

### PIANO TEACHERS' AND SUPERVISORS' COURSE

|                      |                       |
|----------------------|-----------------------|
| Burns, Gertrude..... | North Washington, Pa. |
| Moon, Olive.....     | Mercer, Pa.           |

### VOCAL COURSE

|                       |                          |
|-----------------------|--------------------------|
| Hoover, Beatrice..... | Mechanicsville, New York |
|-----------------------|--------------------------|

### VOCAL AND SUPERVISORS' COURSE

|                        |                |
|------------------------|----------------|
| Gilson, William E..... | Leechburg, Pa. |
|------------------------|----------------|

### VIOLIN

|                   |                  |
|-------------------|------------------|
| Pettis, Ruth..... | Cranesville, Pa. |
|-------------------|------------------|

## Undergraduates

### PIANO

|                             |                      |
|-----------------------------|----------------------|
| Augustine, Paul.....        | Pittsburgh, Pa.      |
| Bennett, Josephine.....     | Youngstown, Ohio     |
| Bowden, Clifford.....       | Grove City, Pa.      |
| Breckenridge, Florance..... | Grove City, Pa.      |
| Bruner, Helen.....          | Grove City, Pa.      |
| Coleman, Erla.....          | Grove City, Pa.      |
| Colucci, Marie.....         | Youngstown, Ohio     |
| Cronenwett, Helen.....      | Butler, Pa.          |
| Detrick, Flossie.....       | Butler, Pa.          |
| Eakin, Isabelle.....        | Stoneboro, Pa.       |
| Foster, Nellie.....         | Volant, Pa.          |
| Gregel, Agnes.....          | Butler, Pa.          |
| Grosse, Aaron.....          | Grove City, Pa.      |
| Heinze, Elizabeth.....      | Farrell, Pa.         |
| Henderson, Katherine.....   | West Pittsburgh, Pa. |
| Henry, Marion.....          | Grove City, Pa.      |
| Hespenheide, Ruth.....      | Mars, Pa.            |
| Hoffman, Louise.....        | Grove City, Pa.      |
| Howe, Jeannette.....        | Grove City, Pa.      |
| Jackson, Margaret.....      | Saltsburg, Pa.       |
| Luna, Charles.....          | La Paz, Bolivia      |
| Marguglio, Lillian.....     | Grove City, Pa.      |
| Mills, E. Laird.....        | Braddock, Pa.        |
| Reicherter, Emily.....      | Brookville, Pa.      |
| Rupert, Alice.....          | Mercer, Pa.          |
| Wood, Hazel.....            | Grove City, Pa.      |
| Young, Pauline.....         | Enon Valley, Pa.     |
| Younggren, Esther.....      | Ridgway, Pa.         |

## VOCAL

|                             |                       |
|-----------------------------|-----------------------|
| Augustine, Paul.....        | Pittsburgh, Pa.       |
| Baker, Ethel.....           | Farrell, Pa.          |
| Barber, Albert.....         | Bellwood, Pa.         |
| Breckenridge, Florance..... | Grove City, Pa.       |
| Burns, Gertrude.....        | North Washington, Pa. |
| Coast, Nancy.....           | Grove City, Pa.       |
| Cronenwett, Helen.....      | Butler, Pa.           |
| Detrick, Flossie.....       | Butler, Pa.           |
| Forrester, Margaret.....    | Grove City, Pa.       |
| Gray, Lillian.....          | Amity, Pa.            |
| Hodge, Margaret.....        | Grove City, Pa.       |
| Huey, Vera.....             | Jackson Center, Pa.   |
| Keck, Ruth.....             | Mercer, Pa.           |
| Koehler, Clara.....         | North Braddock, Pa.   |
| McCandless, Lee.....        | Euclid, Pa.           |
| Mills, E. Laird.....        | Braddock, Pa.         |
| Patterson, A. DeWitt.....   | New Castle, Pa.       |
| Slough, Miriam.....         | Cleveland, Ohio       |
| Smith, Margaret.....        | Falls Creek, Pa.      |
| Stewart, Marion.....        | Coal Glen, Pa.        |
| Walter, Deane C.....        | Export, Pa.           |
| Webster, Marie.....         | Harveys, Pa.          |
| White, Zella.....           | Reynoldsville, Pa.    |

## ORGAN

|                         |                  |
|-------------------------|------------------|
| Bowden, Clifford.....   | Grove City, Pa.  |
| Colucci, Marie.....     | Youngstown, Ohio |
| Covert, Nola.....       | Grove City, Pa.  |
| Davis, Genevieve.....   | Grove City, Pa.  |
| Montgomery, Edward..... | Grove City, Pa.  |

## VIOLIN

|                      |                       |
|----------------------|-----------------------|
| Burns, Gertrude..... | North Washington, Pa. |
| Coleman, Erla.....   | Grove City, Pa.       |
| Eakin, Isabelle..... | Stoneboro, Pa.        |
| Glasgow, George..... | Vandergrift, Pa.      |
| Grosse, Aaron.....   | Grove City, Pa.       |
| Master, Carl.....    | Fern, Pa.             |

## HARMONY

|                             |                 |
|-----------------------------|-----------------|
| Bowden, Clifford.....       | Grove City, Pa. |
| Breckenridge, Florance..... | Grove City, Pa. |
| Coleman, Erla.....          | Grove City, Pa. |
| Eakin, Isabelle.....        | Stoneboro, Pa.  |
| Grosse, Aaron.....          | Grove City, Pa. |
| Henry, Marion.....          | Grove City, Pa. |
| Howe, Jeannette.....        | Grove City, Pa. |
| Rupert, Alice.....          | Mercer, Pa.     |
| Wood, Hazel.....            | Grove City, Pa. |

## ELEMENTS OF MUSIC

|                         |                 |
|-------------------------|-----------------|
| Detrick, Flossie.....   | Butler, Pa.     |
| Marguglio, Lillian..... | Grove City, Pa. |
| Rupert, Alice.....      | Mercer, Pa.     |

## HISTORY OF MUSIC

|                             |                 |
|-----------------------------|-----------------|
| Breckenridge, Florance..... | Grove City, Pa. |
| Coleman, Erla.....          | Grove City, Pa. |
| Cronenwett, Helen.....      | Butler, Pa.     |
| Detrick, Flossie.....       | Butler, Pa.     |
| Eakin, Isabelle.....        | Stoneboro, Pa.  |
| Grosse, Aaron.....          | Grove City, Pa. |
| Howe, Jeannette.....        | Grove City, Pa. |
| Marguglio, Lillian.....     | Grove City, Pa. |
| Rupert, Alice.....          | Mercer, Pa.     |
| Wood, Hazel.....            | Grove City, Pa. |

## TEACHERS' INSTRUCTION

|                             |                 |
|-----------------------------|-----------------|
| Breckenridge, Florance..... | Grove City, Pa. |
| Grosse, Aaron.....          | Grove City, Pa. |
| Howe, Jeannette.....        | Grove City, Pa. |

## MODEL DEPARTMENT

|                  |                 |
|------------------|-----------------|
| Allen, D.....    | Grove City, Pa. |
| Cleland, G.....  | Grove City, Pa. |
| Hewlett, F.....  | Grove City, Pa. |
| Neyman, C.....   | Grove City, Pa. |
| Ross, A.....     | Grove City, Pa. |
| Sieplein, C..... | Grove City, Pa. |
| Smith, V.....    | Grove City, Pa. |
| Stuck, M.....    | Grove City, Pa. |

## Intermediate Department

|                  |                 |
|------------------|-----------------|
| Cleland, M.....  | Grove City, Pa. |
| Dow, O.....      | Grove City, Pa. |
| Dunn, K.....     | Grove City, Pa. |
| Hare, A.....     | Grove City, Pa. |
| Hare, V.....     | Grove City, Pa. |
| Hoagland, L..... | Grove City, Pa. |
| McCoy, R.....    | Grove City, Pa. |
| Magill, W.....   | Grove City, Pa. |
| Phillips, M..... | Grove City, Pa. |
| Sieplein, C..... | Grove City, Pa. |
| Sisley, M.....   | Grove City, Pa. |
| Temple, L.....   | Grove City, Pa. |
| Winsberg, L..... | Grove City, Pa. |

## SUMMARY

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### Collegiate Department

|                            | MEN | WOMEN | TOTAL |
|----------------------------|-----|-------|-------|
| Graduates, June, 1920..... | 29  | 31    | 60    |
| Post Graduates .....       | 7   | 4     | 11    |
| Seniors .....              | 39  | 35    | 74    |
| Juniors .....              | 23  | 22    | 45    |
| Sophomores .....           | 54  | 24    | 78    |
| Freshmen .....             | 126 | 87    | 213   |
| Special .....              | 6   | 16    | 22    |
| Pedagogy, Summer 1920..... | 14  | 252   | 266   |

### Music Department

|   |     |     |     |
|---|-----|-----|-----|
| Graduates .....   | 1   | 4   | 5   |
| Piano .....   | 4   | 24  | 28  |
| Vocal .....   | 5   | 18  | 23  |
| Organ .....   | 2   | 3   | 5   |
| Violin .....  | 3   | 3   | 6   |
| Harmony .....   | 2   | 7   | 9   |
| Elements of Music.....                                  |     | 3   | 3   |
| Music History .....                                     | 1   | 9   | 10  |
| Teacher's Instruction .....                             | 1   | 2   | 3   |
| Model Department .....                                  |     |     | 8   |
| Intermediate Department .....                           |     |     | 13  |
| Different Students, Fall 1919 through Summer 1920 ..... | 274 | 456 | 730 |

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| Archaeology, courses .....                | 73   |
| Astronomy, courses .....                  | 89   |
| Athletics .....                           | 104  |
| Athletic Eligibility Rules .....          | 36   |
| Bible, courses .....                      | 64   |
| Biology, courses .....                    | 90   |
| Boarding .....                            | 46   |
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| Chemistry, courses .....                  | 80   |
| Commencement Exercises, 1920 .....        | 135  |
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| Economics, courses .....                  | 59   |
| Education, courses .....                  | 54   |
| Endowments .....                          | 42   |
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| Faculty                            |          |
| Administrative .....               | 13       |
| Art Department .....               | 8        |
| Bible School, 1920 .....           | 11       |
| Collegiate Department .....        | 6        |
| Music Department .....             | 8        |
| Summer Term, 1920 .....            | 9        |
| French, courses .....              | 78       |
| General Information .....          | 39       |
| Geology, courses .....             | 93       |
| German, courses .....              | 76       |
| Government, courses .....          | 60       |
| Graduate Department .....          | 37       |
| Grade Values .....                 | 32       |
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| Library Work .....                 | 67       |
| Master's Degree .....              | 37       |
| Mathematics, courses .....         | 93       |
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